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FIGURE 1046

AGCCCTATTTATCTGATTATTTAAGTAAAACCTTTAATAAACCATGACCTACATTTTCTATGCAATTTTAAGATAC
TCAGAGTTAATATTTTAATATTGAGGTTCTTGATTTTTTAAATGATCAGCTTTCAAATTATATTTTCAGTATATAC
TCTGAGTCTACGTGTATGCTACAAAAGGTGAAATGAAGTTAGCTTATTTTTCAGTGAGTTTAGGCTATATTAAGA
GTTAGGTAAGTTAGGTAAGGGTGAAACTGCTTTGGGGCCCAGACTGCGCTGGAATGTACTGTTTAAATTCAAAGG
TAATTGATGGCCAGTGTTTCAGTTGCTCTATTTGTAACGTTTGCAITGTTGGTCTGGCTGAAGTATCAGGAAAACAC
AAAATTCATGAAAATAGCACCTTTTATAATTTTATACTTTTATAAAGCACTTGTTAAAGAAGTATAGCAAATTTTC
TATGTATTTTAACATACAAGTCGCTGCATTTTAATGTTTCATTTTGGTATAGCTATGGTAACTTATAATAGTCAT
TTTTATATTCATAACTTGTTTTCTGAAAGATATAGTCATTATTAATAAATAACATTCATGTAAATGGAGTAAATCA
TAGGGGAATCAATCGTAATAAATACCTTATAAATTATAAACTTGTTTAGATACTAGATTTCTATAACCATAAATT
TTATACTGTAAAGTCTGTTTAAAATAGGGTTAATGAAGTTATTTAATTTTTTAGAGACTCCCCTCTAAATAATT
TACTCCTACATTGTAAATACATTGATGCCAACAAAATCCAACCTGCTACTAACAAGGTTTGGTTGGTGATAAGC
TAATAACAGCTACTTTGTGTAGGAGGTAAATATGTGTACTGGAGGGGGTAAAAATCCATTTAGGTTATGGCAAAG
ATGGGAATCAAACCTGTAAACTCATAGCCCCATAAAATTAATATTCTTTGTAAAGTGCCAGAGGGTTTAAGAGAA
CTTCTTGCTTAGAGTTTATTGATAATAATAATGCTTCAGAATATCCCATTTAAATGTACAGTGTAAATATGTAAA
ATATTTTACTTCCCAGGCAAGTTTGTGGCTGTATTGCCACTTAGTGGCTCTTTGTGACTGGCAGTTCTGTATATC
TGAAACAAATAAGCTGTAAAGCACTTTTGTAAAACTTTGTCAAATAATCCTTTTATGTACTTGTTCTCAGACCTG
TTCTCTGGTTATGAAATGTGTTAAAGACAAGGTGCAAATTTAAACAATGCCTGTATTGAAATAAATGACTTAA
CAGAAAAAAAACCTAGTAGTCGGGGGGAACCACTAGT

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FIGURE 1047

PYLSDYLSKTLINHDHLHFLCNFKILRVNIIILRFLIFLMISFQIIFQYIL

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FIGURE 1048

GCGTGCTGGCCCGGGGTGGCAGGAGCCGCGAGAGGCTTGGGCTGCAGAAAAAGGATCCTGTTTGCTGTGTAATCCT
GAGAATGGACTGCAAGAGAGGAAAACTGGGCGTCTGCTTGGGAATCTATTGTGGAAACCCAGGGTGTTTCCCGA
CCAGTCCCTGGGCGCCAACTAGAGTATGGACTGACCAGGTACCTGGATGGAGACCTGAGCTGGAGAAGGAGATGC
GCTTGGGAGGAAATTGCAGAGGCCGTCAACATGGAAAAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCCGA
GAGGTGCCGCCAGCTGTTGGGCTGCTGCTGATCATGGCCCTGATGAATACTCTACTCTACCTCTGCCTCGACCAC
TTCTTCATCGCTCCTCGACAATCCACTGTGGACCCACACACTGTCCCTATGGTCACTTCAGGATAGGACAGATG
AAAACTGCTCACCTTGGCTGTCCTGCGAGGAGCTGAGAACAGAAGTGAGACAGCTGAAGCGTGTGGGGAAGGA
GCTGTAAAGAGAGTCTTTCTGTCTGAGTGGAAGGAGCACAAAGTTGCACTCTCACAGCTCACCAGCCTGGAGATG
AAAGATGATTTCTCCATGGACTGCAGATGCTGAAATCTCTCAAGGCACACATGTTGTCACGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCCCTCTAGGTTCCCTTGAGTAACCTGGAAGAAACACTAAAC
CTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAGCATCATTAAT
TACCTGCACCACAGCCCTGTGGGCACACGGGTGATGTGCGACTCCAACGACCTGCCGAAGACACTGTCCCAGTAT
CTGCTAACAAAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCCCTTACCCCTGGTGAACCACAGCTCCGGGATG
CTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTCGTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGAC
GTGCCCTTTCCACGATGATCTCATGCCCTCATATGATGAGAAGATTGACATTTGGAAGATCCCAGACATCTCCAGT
TTCTTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGATTCCATTTGTTTGATATTACAAAGCATGCAAGAGC
CAGACTCCCTCAGAAAGACCCACTGCCCAGGACGTTCTGGAGACCTACCAGAAGGTCTTGATACACTTAGAGAT
GCCATGATGTCTCAGGCAAGAGAGATGCTGTGAAAAACCAGTCCAGCCAATGAAGGTGGGATTGAAGGGCTGAATG
GAAGTTACAGCATTCTACTCTGATGGTGGAGTTTTTTGCCTGAGTTTCGTGTTTTATTGTTTTTTTTATGGCTTA
GCCATGTGGTTCGTTGTCCACATCCACATGTACGTTTGTATGTAGTCCACATTGGTTGTTAGATTTTTTTTTTTT
TTCTTTGAGATGCGGTCTTGCTCTGTTGCTGAGGCTGGAGTGCACTGATGTGATCTTGCTCACTGCAGCCTCTG
CCTCCAGGTTCAAGCAATTCTCCACCTCAGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGG
CCACATTCAGTTCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAA
AAATATAAGAAAAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCT
GTTCACTCATCTCCAAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTAAAGGAGTAGAATA
CCAAATGATAGAAACAGACTGCCTGAATTGAGAATTTGATTTTTTAAAGTGTGTTTCTTTCTAAATTGCTGTTT
CTTAATTTGATTAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTA
CTAATTAATCACAATGTGAAGTTATGCATGATGTAAAAAATACAAACATTCTAATTAAGGCTTTGCAACACCA
AAAAAAAAAAAAAAAA

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FIGURE 1049

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDP THCPYGHFRIGQMKNCS PWLSCE
ELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALS QLTSLMKDDFLHGLQMLKSLQGTHVV TLLGYCEDDNTMLTE
YHPLGSLSNLEETLNLSKYQNVNTWQHRLELAMDYVSIINYLHHS PVGTRVMCDSDNDLPK TLSQYLLTSNFSILA
NDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPFYGEDV PFFHDDLMP SYDEKIDIWKIPDI SSFLLGHIEGSD
MVRFHLEFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

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FIGURE 1050

CGCGGGCCGACTGGTGTTTTATCCGTCACCTCGCCGAGGTTCCCTTGGGTCATGGTGCCAGCCTGACTGAGAAGAGGA
CGCTCCCGGGAGACGAATGAGGAACCACCTCCTCCTACTGTTCAAGTACAGGGGCCTGGTCCGCAAAGGGAAGAA
AAGCAAAAGACGAAAATGGCTAAATTCGTGATCCGCCCAGCCACTGCCGCCGACTGCAGTGACATACTGCGGCTG
ATCAAGGAGCTGGCTAAATATGAATACATGGAAGAACAAGTAATCTTAAGTAAAAAGATCTGCTAGAAGATGGT
TTTGGAGAGCACCCTTTTACCCTGCCTGGTTGCAGAAGTGCCGAAAGAGCACTGGACTCCGGAAGGACACAGC
ATTGTTGGTTTTGCCATGTACTATTTTACCTATGACCCGTGGATTGGCAAGTTATTGTATCTTGAGGACTTCTTC
GTGATGAGTGATTATAGAGGCTTTGGCATAGGATCAGAAATTCTGAAGAATCTAAGCCAGGTTGCAATGAGGTGT
CGCTGCAGCAGCATGCACCTTCTTGGTAGCAGAATGGAATGAACCATCCATCAACTTCTATAAAAGAAGAGGTGCT
TCTGATCTGTCCAGTGAAGAGGGTTGGAGACTGTTCAAGATCGACAAGGAGTACTTGCTAAAAATGGCAACAGAG
GAGTGAGGAGTGCTGCTGTAGATGACAACCTCCATTCTATTTTAGAATAAATTCCCAACTTCTCTTGCTTTCTAT
GCTGTTTGTAGTGAAATAATAGAATGAGCACCCATTCCAAAGCTTTATTACCAGTGGCGTTGTTGCATGTTTGAA
ATGAGGTCTGTTTAAAGTGGCAATCTCAGATGCAGTTTGGAGAGTCAGATCTTCTCCTTGAATATCTTTCGATA
AACAACAAGGTGGTGTGATCTTAATATATTTGAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGT
ACACACTGGTACTTAGAGTTTCTGTTTGATTCTTTTTTAATAAACTACTCTTGATTTAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1051

MAKFVIRPATAADCSDILRLIKELAKYEYMEEQVILTEKDILLEDGFGEHPFYHCLVAEVPKEHWTPEGHSIVGFA
MYFTYDPWIGKLLYLEDDFFVMSDYRGFGIGSEILKNLSQVAMRCRCSSMHFLVAEWNEPSINFYKRRGASDLSS
EEGWRLFKIDKEYLLKMATEE

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FIGURE 1052

ATATCTTATAAATGAAGTCTCCTCATTTTCCTGTGGTCAGAAGAGAGGGGGCAAGCAGAAAAGCAGAGGAACAAA
TTTGGAGGCTAAAATAACATTCTACATAAGGAACATACTACAGTAGAATTAATTGATAGCAGGGATTAAGAGAT
GTAAATGAATTTGAGATACATATTCTAGAGGTAGAATGTGCAATACTTTTTGTATGTCCATATACAGAAATTGGT
TGCATTTTCCTTAAATAAAAAGATTTTTTAAAAGTTAGTGAGCTGTTATGTTTTCTTCCCTCTGACTTCAATTCC
TTGATTCTTTCAATTTTTTTAATATAAATTTACTGTCTAAAAGCTGGATCAGCTTATGCTCCTTTGTTGAGAGAA
GTTGGCATGCTGTCAAGTGGGCTGGGCACACTGAGTTTCAGTTTTCTTTCTCTGAGTCTTTGAAGCTTCAAGGCT
GCTGAATAATTTCTTCTCCCATTTTGTGCCTGCCTAGCTATCCAGACAGAGCAGCTACCCTCAGCTCTAGCTGA
TACTACAGACAGTACAACAGATCAAGAAGTATGGCAGTGACAACCTCGTTTGACATGGTTGCACGAAAAGATCCTG
CAAAATCATTTTGGAGGGAAGCGGCTTAGCCTTCTCTATAAGGGTAGTGTCCATGGATTCCGTAATGGAGTTTTG
CTTGACAGATGTTGTAATCAAGGGCCTACTCTAACAGTGATTTATAGTGAAGATCATATTATTGGAGCATATGCA
GAAGAGAGTTACCAGGAAGGAAAGTATGCTTCCATCATCTTTTTTGCACTTCAAGATACTAAAAATTCAGAATGG
AACTAGGACTATGTACACCAGAAAACACTGTTTTGTTGTGATGTTACAAAATATAAATCCCAACTAATTTCCAG
ATAGATGGAAGAAATAGAAAAGTGATTATGGACTTAAAGACAATGGAATCTTGGACTTGCTCAAAATTTGTA
ATCTCTATTTCAGGATTATGAAGTTTTTCGATGCGAAGATTCAGTGGATGAAAGAAAGATAAAAGGGGTCATTGAG
CTCAGGAAGAGCTTACTGTCTGCCTTGAGAACTTATGAACCATATGGATCCCTGGTTCAACAAATACGAATTCG
CTGCTGGGTCCAATTGGAGCTGGGAAGTCCAGCTTTTTCAACTCAGTGAGGTCTGTTTTCCAAGGGCATGTAACG
CATCAGGCTTTGGTGGGCCTAATACTGGGATATCTGAGAAGTATAGGACATACTCTATTAGAGACGGGAAA
GATGGCAAATACCTGCCGTTTATTCTGTGTGACTCACTGGGGCTGAGTGAGAAAGAAGCGGCTGTGCAGGGAT
GACATATTCTATATCTTGAACGGTAACATTCTGTATAGATACCAGTTTAAATCCCATGGAATCAATCAAATTAAT
CATCATGACTACATTGATTCCCCATCGCTGAAGGACAGAATTCATTGTGTGGCATTGTATTGATGCCAGCTCT
ATTCAATACTTCTCCTCTCAGATGATAGTAAAGATCAAAAGAATTCGAAGGGAGTTGGTAAACGCTGGTGTGGTA
CATGTGGCTTTGCTCACTCATGTGGATAGCATGGATTTGATTACAAAAGGTGACCTTATAGAAATAGAGAGATGT
GAGCCTGTGAGGTCCAAGGTAATGAATGATGCCCTTCGTAAACACATTTTCTGGGCTAGAGGAAGTCCAAAGAAA
ACAGAGTAAACATCTGCCAACGTTTATTGACAGTGCTGAGCAGTGACAGATAAATATTTGGAACCTAGGCAGTTT
GATTCTAGAGGTAAAATAGTCTAAACAAGAATTAAACGTTAAACTGGTCTAATAAAATCTACTTATCCAGAGAAT
GTTTTTTAAAAGAAAACAGGAAATATATGGACTGTAGGATAGGTGTCATAAAAATTTTGTCTTAAATCATTTAGA
ATCCACTGCATGTATTCCAAATTACAATTATCAGTGACATTAGAAGTTGATATGTGAAGTTCTTCAAGAGTACTT
TGAGAGACCAGATCTCCATTTTTTCCAATGGGAAATTATTGCAAGTTCTTACATCTTGATATTGCTTTCGTAAT
TTATACTAACATAAAATAATATTTTCACTGTTTTGCAATGTCTTTTTAATTTCTGTATTGCAGCTAGAGGAAGT
CCAAAGAAAACCTGGATTGCTCTTTCTGACATCTCGGTGGTTAGCAATTATTCCTCTGAGTGGGAGCTGGACCC
TGTAAGGATGTTCTAATCTTTCTGCTCTGAGACGAATGCTATGGGCTGCAGATGACTTCTTAGAGGATTGGCC
TTTTGAGCAAATAGGTAGATGTGTTGGTGGTGTGGAAGCTTGAAGCGGTCAGGTAGTTGGCTACTTTCTGCTT
GGATCTATTAAATACCTGGCAGCTCTCTGCTTTTTGTGGGTTGTTGCCCTGTGATTAGTTCTGCTTTTTAACC
ACTCCCTGGATGCATTTTTCCCTCCTTGCAATTTCCCTCTTTTCTGGAGTTCATACTAGAGAAATCTGCACATATGT
TTTTCCCTTTTTGTCTTGAGATGAAAGTTTTAAATAATCCACCTCTGTCAATTTCCACTCTCTGAACATCCCAAG
CTGATCCCTGGCCTCTTTCTCAGACTATGTTTCTTTACTTGGGACCTAGAAGTGGATTGGATTGGCATTGCTC
CTGATCAGATGAGACCTTTGATTATTTGCCCTTCCTTAGGACCTTACACTCCTGTCTTTCTTTGACTTGCCTTT
TTGTTTCTTTCTTCTCATCTTAGTCCCTCTTCATGCAGTATGGTCATTGCTAGGTAGAGGTATGTCTTTTATGTA
ATGGCCACCGCATTTAGTATTACATAAACTTTCTTTTAAACAATCTGTGCATAGTACATGCTGCTCTGTTCCATTT
AGAGATTTGACAGAGGTTTCAGTTTAGTATACTCAAATCTTATTTTAGTGCTTGGGAAATCAATTCAGAATATCA
CATCTCTCCAATTCTCTTACTCAAATTGCTGGGAACTCTCATGTTACTAATCTTTGTTGCTCTAATCTTGCC
ATCTTGGTTTTCCCATCCCTTCTCTTCTCATGGTACGTGTGCTCCTAATATTAGCGTTGGTTGAGATTTTCAGT
GGTCCAATATTCCTCTTCCCTCTGGTTGCCTTTTCTGAGATAATCCACTAAGAATATTTTGTGTTCTTTTCTCA
GGGAATCTAAGGGAGGAAATTATCAACTGTGCACAAGGAAAAAATAGATATGTGAAAGGTTACAGTAAATTTCC
TCACATCACAGAAGATTAAATTCAGAAAGGAGAAAACACAGACCAAGAGAAGTATCTAAGACCAAGGGATGT
GTTTTATTAATGTCTAGGATGAAGAAATGCATAGAACATTGTAGTACTTGTAAATAACTAGAAATAACATGATTT
AGTCATAATTGTGAAAAATAATAAATTTTTCTTGGATTTATGTTCTGTATCTGTGAAAAATAAATTTCTTAT
AAAACCTCGGAAGTATGTAGTCGGGTACCG

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FIGURE 1053

MAVTTRLTLWLHEKILQNHFGGKRLSLLYKGSVHGFRNGVLLDRCCNQGP TLTVIYSEDHII GAYAEESYQEGKYA
SIILFALQDTKISEWKLGLCTPETLFCCDVTKYNSPTNFQIDGRNRKVIMDLKT MENLGLAQNCTISIQDYEVFR
CEDSLDERKIKGVIELRKSLLSALRTYEPYGSLVQQIRILL LGPIGAGKSSFFNSVRSVFQGHVTHQALVGTNTT
GISEKYRTYSIRDGKDGYLPFILCDSLGLSEKEGGLCRDDIFYILNGNIRDYQFNPMESIKLNHHDYIDSPSL
KDRIHCVAFVFDASSIQYFSSQMIVKIKRIRRELVNAGVVH VALLTHVDSMDLITKGD LIEIERCEPVR SKVMND
ALRKHIFWARGSPKKTE

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FIGURE 1054A

TCCGGGTATGGATGTCAATCTTTTGTCTACAATGTGAATACATTTATCCTTCGGGGACCATCAAGACTTTTCAGGA
AAGGCCCCGCCTGTCTCTGCGCGGCCACTTTGTCTGGGACAAAGGTCAACTGAAGAAGTGGGCAGGCCCCGAGGCAG
GAGAGATGCTGAGGAGTCCATGTGCAGGGGAGGGAAAGGGAGAGGCAGTCAGGGAGAGGAGGAGGAGGTACCGCC
AGAAGGGGATCCTCCCGCTCCGAAAACCAGACACCGGGTCTTGCCCTGTGGTCCAGGCAGGAGTGCAGTGGTGCA
ACCTCAGCTCACTGCAGCCTTGACCTCCCCGGGCTCAAGCGATCCTCCGGCCACAGCACTTGCTGTTTCAGCGGC
TGGAGGAGCAGGGCCCCAGGTCTCCCCACCCTCACCTGCTGCTCCAGGTCGTGGCCGTCTTGCTCTTCCAGGT
CCTTCTCTAGGGATGCAATATTACATTGCTAAGATGCAGGTCTAACGCAGAACCTGTCAACAGAGCCCCCATC
ATCCACAGCCCCACCCAGCGCTGCAGAGCTCAGGAAGCCTAGCTGAGGAGGACGACCGTCCCACCTGGGCTTAGAG
TGAGACCAAGGGCAGAAGGCGTGGGAGTTGCTGGGGCAGCCAGGGAAGGACACCCCCAGCCCGTCTCTGCAGCCC
CCCACAGGCAGTGGGAGGCTTGCTGTTTCTCCGGCAAACGGGCATGCTCAGTGGGCCGGGCCGGCAGGTTTGC
GTGGCCGCTGAGTTGCCGGCGCCGGCTGAGCCAGCGGACGCCGCTTCTTGCGCGCCGCCGTTCCCGGGAAGT
TACGTGGCGAAGCCGGCTTCCGAGGAGACGCCGGGAGGCCACGGGTGCTGCTGACGGGCGGGCGACCGGGCGAGG
CCGACGTGGCCGGGCTGCGAAAGCTGCGGGAGGCCGAGTGGGTGACCGCGCTCGGAGGGAGGTGCCGGTCGGGCG
CGCCCCGTGGAGAAGACCCGGGCGGGGCGGGCGCTTCCCGACTTTTGTCCGAGTTGAATTCCCTCCCCCTGGGC
CGGGCCCTTCCGTCCGCCCCCGCCCGTCCCCGCTCGCTCTCGGGAGATGTTTATTTGGGCTGTGGCGTGAGGAG
CGGGCGGGCCAGCGCCGCGGAGTTTCCGGTCCGAGGAGCCTCGCGCGGGCGCTGGAGAGAGACAAGATGTCCGCCA
GAGCTGCGGCCGCCAAGAGCACAGCAATGAGGAGAAACAGCTATATGGGAACAACATACAGTGACGCTTCACAGGG
CTCCTGGATTTGGATTTGGAATTGCAATATCTGGTGGACGAGATAATCCTCATTTTCAGAGTGGGGAACGTCAA
TAGTGATTTTCAGATGTGCTGAAAGGAGGACCAGCTGAAGGACAGCTACAGGAAAATGACCGAGTTGCAATGGTTA
ACGGAGTTTCAATGGATAATGTTGAACATGCTTTTGTGTTTACAGCACTAAGGAAAAGTGGGAAAAATGCAAAAA
TTACAATTAGAAGGAAGAAGAAAGTTCAAATACCAGTAAGTCGTCTCTGATCCTGAACACAGTATCTGATAATGAAG
AAGATAGTTATGATGAGGAAATACATGATCCAAGAAGTGGCCGGAGTGGTGTGGTTAACAGAAGGAGTGAGAAGA
TTTGGCCGAGGGATAGAAGTGCAAGTAGAGAGAGGAGCTTGTCCCGCGGTCAGACAGGCGGTGAGTGGCTTCCA
GCCAGCCTGCTAAACCTACTAAAGTCACACTGGTGAAATCCCGGAAAAATGAAGAATATGGTCTTTCGATTGGCAA
GCCATATATTTGTTAAGGAAATTTCAAGATAGTTTGGCAGCAAGAGATGGCAATATTCAAGAAGGTGATGTTG
TATTGAAGATAAATGGTACTGTGACAGAAAATATGTCATTGACAGATGCAAAGACATTGATAGAAAGGTCTAAAG
GCAAATTAATAAATGGTAGTTCAAAGAGATGAACGGGCTACGCTATTGAATGTCCCTGATCTTTCTGACAGCATCC
ACTCTGCTAATGCCTCTGAGAGAGACGACATTTAGAAATTCAGTCACTGGCATCAGATCATTCTGGTTCGATCAC
ACGATAGGCCTCCCCGCCGAGCCGGTCACGATCTCCTGACCAGCGGTGAGAGCCTTCTGATCATTCCAGGCACT
CGCCGACAGCCAAGCAATGGCAGTCTCCGGAGTAGAGATGAAGAGAGAATTTCTAAACCTGGGGCTGTCTCAA
CTCCTGTAAAGCATGCTGATGATCACACACCTAAAACAGTGAAGAAGTTACAGTTGAAAGAAATGAGAAAACAAA
CACCTTCTCTTCCAGAACCAAAGCCTGTGTATGCCCAAGTTGGCAACCAGATGTGGATTTACCTGTGAGTCCATC
TGATGGTGTCTACCTAATTCAACTCATGAAGATGGGATTTCTTCGGCCAGCATGAAATTGGTAAATTCAGAA
AAGGAGATAGTGTGGGTTTTCGGGCTGGCTGGTGGAAATGATGTTGGAATATTTGTAGCTGGCGTTCTAGAAGATA
GCCCTGCAGCCAAGGAAGGCTTAGAGGAAGGTGATCAAATCTCAGGGTAAACAACGTAGATTTTACAAATATCA
TAAGAGAAGAAGCCGTCTTTTCTGCTTGACCTCCCTAAAGGAGAAGAAGTGACCATATTGGCTCAGAAGAAGA
AGGATGTTTATCGTCGATTGTAGAATCAGATGTAGGAGATTCTTTCTATATTAGAACCCATTTTGAATATGAAA
AGGAATCTCCCTATGGACTTAGTTTTAACAAAGGAGAGGTGTTCCGTGCTGTGGATACCTTGTAATGGAAGAAC
TGGGCTCTTGGCTTGCTATTGCAATTGGTAAAAATCATAAGGAGGTAGAACGAGGCATCATCCCTAATAAGAACA
GAGCTGAGCAGCTAGCCAGTGACAGTATACACTTCCAAAAACAGCAGGCGGAGACCGTGCTGACTTCTGGAGAT
TCAGAGGTCTTCGCAGCTCCAAGAGAAATCTTCGAAAAAGCAGAGAGGATTTGTCCGCTCAGCCTGTTCAAACAA
AGTTTCCAGCTTATGAAAGAGTGGTTCTTCGAGAAGCTGGATTTCTGAGGCCTGTAACCATTTTTTGACCAATAG
CTGATGTTGCCAGAGAAAAGCTGGCAAGAGAAGAACCAGATATTTATCAAATTGCAAAGAGTGAACACGAGACG
CTGGAAGTGACCAACGTAGCTCTGGCTATATTGCGCTGCATACAATAAAGCAAATCATAGATCAAGACAAACATG
CTTTATTAGATGTAACACCAAATGCAGTTGATCGTCTTAAGTATGCCAGTGGTATCCAATTGTTGATTTCTTA
ACCCTGATTCTAAGCAAGGAGTAAAAACAATGAGAATGAGGTTATGTCCAGAATCTCGGAAAAGTGCCAGGAAGT
TATACGAGCGATCTCATAAACTTGCTAAAAATAATCACCATCTTTTTTACAACATAAATACTTAAATTCAATGA
ATGATGGTTGGTATGGTGGCTGAAAGAAGCAGTTCAACAACAGCAAAACCAGCTGGTATGGGTTTCCGAGGGAA

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FIGURE 1054B

AGGCGGATGGTGTCTACAAGTGATGACCTTGATTGTCATGATGATCGTCTGTCCTACCTGTCAGCTCCAGGTAGTG
AATACTCAATGTATAGCACGGACAGTAGACACACTTCTGACTATGAAGACACAGACACAGAAGGCGGGGCTTACA
CTGATCAAGAACTAGATGAAACTCTTAATGATGAGGTTGGGACTCCACCGAGTCTGCCATTACACGGTCTCTG
AGCCTGTAAGAGAGGACTCCTCTGGAATGCATCATGAAAACCAAACATATCCTCCTTACTCACCACAAGCGCAGC
CACAACCAATTTCATAGAATAGACTCCCCTGGATTTAAGCCAGCCTCTCAACAGAAAGCAGAAGCTTCATCTCCAG
TCCCTTACCTTTTCGCTGAAACAAACCCAGCATCATCAACCTCTGCTGTTAATCATAATGTAAATTTAACTAATG
TCAGACTGGAGGAGCCACCCAGCTCCTTCCACCTCTTACTCACCACAAGCTGATTCTTTAAGAACACCAAGTA
CTGAGGCAGCTCACATAATGCTAAGAGATCAAGAACCATCATTGTCGTCGCATGTAGATCCAACAAAGGTGTATA
GAAAGGATCCATATCCCGAGGAAATGATGAGGCAGAACCATGTTTTGAAACAGCCAGCCGTTAGTCACCCAGGGC
ACAGGCCAGACAAAGAGCCTAATCTGACCTATGAACCCCACTCCCATACGTAGAGAAACAAGCCAGCAGAGACC
TCGAGCAGCCACATACAGATACGAGTCTCAAGCTATACGGACCAGTTTTCTCGAAACTATGAACATCGTCTGC
GATACGAAGATCGCGTCCCCATGTATGAAGAACAGTGGTCATATTATGATGACAAACAGCCCTACCCATCTCGGC
CACCTTTTGATAATCAGCACTCTCAAGACCTTGACTCCAGACAGCATCCCGAAGAGTCTCAGAACGAGGGTACT
TTCCACGTTTTGAAAGAGCCAGCCCCCTCTGTCTTACGACAGCAGACCACGTTACGAACAGGCACCTAGAGCATCCG
CCCTGCGGCACGAAGAGCAGCCAGCTCCTGGGTATGACACACATGGTAGACTCAGACCCGAAGCCAGCCCCACC
CTTCAGCAGGGCCCAAGCCTGCAGAGTCCAAGCAGTATTTTGAGCAATATTCACGCAGTTACGAGCAAGTACCAC
CCCAAGGATTTACCTCTAGAGCAGGTCATTTTGAGCCTCTCCATGGTGCTGCAGCTGTCCCTCCGCTGATACCTT
CATCTCAGCATAAGCCAGAAGCTCTGCCTTCAAACACCAAACCACTGCCTCCACCCCAACTCAAACCGAAGAAG
AGGAAGATCCAGCAATGAAGCCACAGTCTGTACTCACCAGAGTTAAGATGTTTGAAACAAAAGATCTGCATCCT
TAGAGACCAAGAAGGATGTAAATGACACTGGCAGTTTTAAGCCTCCAGAAGTAGCATCTAAACCTTCAGGTGCTC
CCATCATTGGTCCCAAACCCACTTCTCAGAATCAATTCAGTGAACATGACAAAACCTCTGTACAGGATCCCAGAAC
CTCAAAAACCTCAACTGAAGCCACCTGAAGATATTGTTCCGGTCCAATCATTATGACCCTGAAGAAGATGAAGAAT
ATTATCGAAAACAGCTGTCATACTTTGACCGAAGAAGTTTTGAGAATAAGCCTCCTGCACACATTGCTGCCAGCC
ATCTCTCCGAGCCTGCAAAGCCAGCTCATTCTCAGAATCAATCAAATTTTTCTAGTTATTCTTCAAAGGGAAAGC
CTCCTGAAGCTGATGGTGTGGATAGATCATTGGCGAGAAACGCTATGAACCCATCCAGGCCACTCCCCCTCCTC
CTCCATTGCCCTCGCAGTATGCCAGCCATCTCAGCCTGTACCAGCGCTCTCTCCACATACATTCTAAGGGAG
CACATGGTGAAGGTAATTCAGTGTCAATTGGATTTTCAGAATTCCTTAGTGTTCAAACAGACCCACCTCCATCTC
AGAATAAGCCAGCAACTTTCAGACCACCAAACCGAGAAGATACTGCTCAGGCAGCTTTCTATCCCCAGAAAAGTT
TTCCAGATAAAGCCCCAGTTAATGGAACCTGAACAGACTCAGAAAACAGTCACTCCAGCATACAATCGATTACAC
CAAAACCATATACAAGTTCTGCCCCGACCATTGAAACGCAAGTTTGAAAGTCCTAAATTCAATCACAATCTTCTGC
CAAGTGAAACTGCACATAAACCTGACTTGTCTTCAAAAACCTCCACTTCTCCAAAACCTCTTGTGAAATCGCACA
GTTTGGCACAGCCTCCTGAGTTTGACAGTGGAGTTGAACTTTCTCTATCCATGCAGAGAAGCCTAAATATCAAA
TAAATAATATCAGCACAGTGCCCTAAAGCTATTCTGTGAGTCCTTCAGCTGTGGAAGAGGATGAAGATGAAGATG
GTCATACTGTGGTGGCCACAGCCGAGGCATATTTAACAGCAATGGGGGCGTGCTGAGTTCCATAGAACTGGTG
TTAGTATAATTATCCCTCAAGGAGCCATTCCCGAAGGAGTTGAGCAGGAAATCTATTTCAAGGTCTGCCGGGACA
ACAGCATCCTTCCACCTTTAGATAAAGAGAAAGGTGAAACACTGCTGAGTCCTTTGGTGATGTGTGGTCCCCATG
GCCTCAAGTTTCTGAAGCCTGTGGAGCTGCGCTTACCACACTGTGATCCTAAAACCTGGCAAAAACAAGTGTCTTC
CCGGAGATCCAAATTATCTCGTTGGAGCAAACCTGTGTTTCTGTCTTATTGACCACTTTTAACTCTTGAAATATA
GGAACCTAAATAATGTGAAACTGGATTAAACCTTAATCTAAATGGAACCACTCTATCAAGTATTATACCTTTTTTA
GAGTTGATACTACAGTTTGTAGTATGAGGCATTTGTTTGAACCTGATAAAGATGAGTGAGCATGCCCTGAACCA
TGGTCCGAAAACATGCTACACACTGCATGTTTGTGATTGACGGGACTGTTGGTATTGGCTAGAGGTTCAAAGATA
TTTTGCTTTGTGATTTTTGTAAATTTTTTATCGTCACTGCTTAACTTCACATATTGATTCCGTTAAATACCAG
CCAGTAAATGGGGGTGCATTTGAGGTCTGTTCTTTCAAAGTACACTGTTTCAAACCTTACTATGGCCCTGGCCT
AGCATACGTACACATTTTATTTTATTATGCATGAAGTAATATGCACACATTTTTTAAATGCACCTGGAATATATA
ACCAGTGTGTGGATTTAACAGAAATGTACAGCAAGGAGATTTACAACCTGGGGGAGGGTGAAGTGAAGACAATGA
CTTACTGTACATGAAAACACATTTTTCTTAGGGAAGGATACAAAAGCATGTGAGACTGGTTCCATGGCCTCTTCA
GATCTCTAACTTCACCATATTACCACAGACATACTAACCAGCAGAAATGCCTTACCCTCATGTTCTTAATTTCTTA
GCTCATTCTCCTTGTGTTACTAAGTTTTTATGGCTTTTGTGCATTATCTAGATACTGTATCATGACAAAGACTGA

GTACGTTGTGCAATTTGGTGGTTCAGAAATGTGTTATCACCCAGAAGAAAATAGTGGTGTGATTTGGGGATATTT
TTTTCTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTGTACAAGGGGCAGTGGTGGTTTTCTGTTCTTTCTGGCTAT
GCATTTGAAAAATTTTGATGTTTTAAGGATGCTTGTACATAATGCGTGCATACCACTTTTGTTCTTGGTTTGTAAA
TTAACTTTTATAAACTTTACCTTTTTTATACATAAAACAAGACCACGTTTCTAAAGGCTACCTTTGTATTCTCTCC
TGTACCTCTTGAGCCTTGAACCTTTGACCTCTGCAGCAATAAAGCAGCGTTTCTATGACACATGCAAGGTCATTTT
TTTTAAGAAAAAAGGATGCACAGAGTTGTTACATTTTTAAGTGCTGCATTTAAAGATACAGTTACTCAGAATTCT
CTAGTTTGATTAAATTCTTGCAAAGTATCCCTACTGTAATTTGTGATACAATGCTGTGCCCTAAAGTGTAATTTT
TTACTAATAGACAAATTTATTATGACACATCAGCACGATTTCTGTTTAAATAATACACCACTACATTCTGTTAATC
ATTAGGTGTGACTGAATTTCTTTTGCCGTTATTAAAAATCTCAAATTTCTAAATCTCCAAAATAAACTTTTTAA
AATAAAAAAAAAAT

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FIGURE 1055

MEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQENDRVAMVNGVSMDNVE
HAFVQQLRKSGKNAKITIRKKKVQIPVSRPDPEPVSDNEEDSYDEEIHDPERSGRSGVVNRSEKIWPRDRSAS
RERSLSPRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAAARDGNIQEGDVVLKINGT
ENMSLTDAKTLIERSKGKLMVVQORDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGRSHDRPPRRSR
SRSPDQRSEPSDHSRHSPQQPSNGSLRSRDEERISKPGAVSTPVKHADDHTPKTVEEVTVVERNEKQTPSLPEPKP
VYAQVGNQMWIYLSVHLMVSYLIQLMKMGFLRPSMKLVKFRKGDVGLRLAGGNDVGIFVAGVLEDSAPAAKEGLE
EGDQILRVNNVDFTNIIREEAVLFLDLDPKGEEVTLAQKKKD VYRRIVESDVGDSFYIRTHFEYEKESPYGLSF
NKGEVFRVADTLYNGKLGSLAIRIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKR
NLRKSREDLSAQPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDQRSSG
YIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPD SKQGVKTMRLCPESRKSARKLYERSHKL
KNNHHLFTTTINLNSMNDGWYGALKEAVQQQNQLVWVSEKADGATSDDLHLHDDLRLSYLSAPGSEYSMYSTDS
RHTSDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPOP IHRIDS
PGFKPASQQKAEASSPVYLSPETNPASSTSAVNHNVNLTNVRLEETPAPSTSYSPQADSLRTPSTEAAHIMLR
DQEPSLSSHVDPTKVYRKDPYPEEMMRQNHVLKQPAVSHPGHRPDKEPNLTYPQLPYVEKQASRDLEQPTYRYE
SSSYTDQFSRNYEHLRYEDRVPMYEEQWSYDDKQPYPSRPPFDNQHSQDLDSRQHPEESSERGFYFRFEPPAP
LSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGPKPAESKQYFEQYSRSYEQVPPQGFTSRAG
HFEPLHGAAVPPPLIPSSQHKPEALPSNTKPLPPPTQTETEEEDPAMKPQSVLTRVKMFENKRSASLETKKDVND
TGSFKPPEVASKPSGAPIIGPKPTSQNFSEHDKTLYRIPEPQKPKLPKPEDIVRSNHYPDEEDEEYRKQLSYF
DRRSFENKPPAHIAASHLSEPAKPAHSQNSQSNFSSYSSKKGKPEADGVDRSFGEKRYEPIQATPPPPPLPSQY
PSQPVTSASLHHSKGAHGEGNSVSLDFQNSLVSKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNG
TEQTQKTVTPAYNRFTPKPYTSSARPFERKFESPKFNHNLPSSETAHKPDLSKPTPTSPKTLVKSHSLAQPFED
SGVETFSIHAEKPKYQINNISTVPKAI PVSPSAVEEDEDGHTVVATARGIFNSNGGVLSSIETGVSIIIPQGA
IPEGVEQEIYFKVCRDNSILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVG
ANCVSVLIDHF

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FIGURE 1056

GCCCTTTCTGCCTCTGCGGGGCTCTGGTCGCCGGCCAAGGAAAAACGAGGCTGGACCCCTGAACAGCGCGGGCTAC
CTGCTGGGCCCACATGCCGTTGGCAACCACAGGTCATTCAGCGACAAGAATGGCCTCACCAGCAAGCGGGAGCTG
CGGCCCCAAGATGACATGAAACCAGGAAGCTTTGACAGGTCCATACCTGAAAACAATATCATGCGCACAATCATT
GAGTTTCTGTCTTTCTTGCATCTCAAAGAGGCCGGTGCCCTCGACCGCCTCCTGGATCTCCCCGCCGCAGCCTCC
TCAGAAGACATCGAGCGGTCCTGAGAGCCTCCTGGGCACGTTTGTCTGTGTGCTGTAACCTGAAGTCAAACCTTA
AGATAATGGATAATCTTCGGCCAATTTATGCGGAGTCAGCCATTCTGTTCTCTTTGCCTTGATGTTGTGTTGTT
ATCATTTAAGATTTTTTTTTTTTTTGGTAATTATTTTGAGTGGCAAATAAAGAATAGCAATTA

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FIGURE 1057

ALSASAGLWSPAKEKRGWTLNSAGYLLGPHAVGNHRSFSDKNGLTSKRELRPEDDMKPGSFDRSIPENNIMRTII
EFLSFLHLKEAGALDRLLDLPAAASSED IERS

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FIGURE 1058A

TATTTTGACATGCAAGAGGAGCAGGCATTCCAGGTATTTGAATACTGAGAGATTCAAATTATCAGCAAGGTTCTT
TCCAGTTCACGTTTGTGTGTATCAGTGTAATAATTATTTGAATAGCTTCCACTGATGAGTTATTAGCTGATA
AGTGTATTATTGTCATGGTTGAAAGAAAATAATAATGAAAGAAGAAACGATTACCTTTAGTGATAAAGTTGGGGCC
GGATGGGACGAAGCAGTGCAATTTTTTTCTTTATAATTATCCCTATTTGAAAAATCAACTGTATATGAGGCA
GCAACACCTTGCAGAGCAGCATTCCCTTTTAGTTTCAGGACGTGGTGGTGGATGGAACCACTGTAACCTGGCCT
CCCTCCATGAGAGGAGGGAATCCAGGTGGCCATGTTGAAATGTGCCTGTGTGCAGCAAGGCTTCTGAAATGACAA
GAGAGCCCAGCAGCTTCCAAAGCAGCTGTGACTCTGGATCTCACCCATCATCTCTGCTTCTCACTGTTAGAGGAG
TGAATCTGTGCTGCCTTAGGAGGCATGGAACCTGGGACTTTTCTTCTTGTGTTAATGTTTAAATTTTATTAATAA
ATTTGTAAGTGATAGATGTTGATCTCGTGACAAAAGAGAGATTCCCTCTTTATAAACTATTCTAACTAAAGATC
TTTTGTAAGCCCATGTGTTAGAAATAAACTTGAATATCCCTTTTTTGTGTTGTTTATGAATGGCCAATAATT
TATTCACATGTGACATTTGAGCTGGCATTTTTTCTCTCTGAGATGACAGTAGCGTCCGCTGTGTTGTATTCTAAA
GCAAAGTCAGAATAGCCCTTTGCTTTTGTCCCGATTAGTAGTCTGTTTTGCTTCTTGCCTTTTCCATTTAGAC
CTTATGGTATTTCTTAAACCTTAGACTGTTTTGAAAGGCTTTGATTAAATATGCTGATAAAAGAATTCGATAAC
CAAGTTAGGAACGACAAGGCTATCTGGAGAAGACCAAATGACTTGGCAGCCTAACAAATTCTATTAGAGCACAC
AAAGAGATCCTGGAACGTTTTATAGGGACTCGTGTGTGGGGAATGGTATGAACTCAGGTTACCTGCAAAATATGG
TGTCATATGGAACATTTAAGAGCTTATGGAATACTCTTGAATAAAGTGGAATGAGCTAGCAAGCATATTATA
CCTAAGAAGAAAAACAAGAGCATTCACTCTGGTTTTTAAAGGTAGCTGCTCAAGGAAGGGAGATAGATGAAAGTA
AATTGTTTTCTACTTTGTACACATAATATAGAAGAGATCACCTAAGCCTAGTTTTGCTAACAGACCCTAGACTT
AAAATTAGAGGTCATGATGTCTAGCCACCTTCTCTGTAGGAACCTCTCGTGATACCCTGAAAGCCTCTGCTTAA
ATACTTCCAGAGAAAAGTGAGGAAGGTAGGGGTGGGGATGAAGGTTGCAGGAACCTCATGTTGAGTACCTAGTAT
CTGCAAGATACTAGAGTAGGTACTTTATCGCCATCTCATCTGACTTATGATGAGTGCAGGTTTTATAACCTCA
AGTTTACAAGTGAGGAACTAAGTTTATATAAGTGTACGAACTTGCTTCAGTTTCAATGTCTAGCTTGAGGCA
AATCTGAAATTAGAACCTAGGTCCATCTTCTGCACTACCTAACTGCCTCTCAGGATGAGGGAGAGCTCCCTT
CATGGCTAAGGCAACCTCTCTGTCTAATAATGCAGATCTTTTAAAAATCTTTCTTTTATTTAACTGAAATCTG
CCTCCCATTAACATCTCTCATTGGTCTGATTGGGCTCAGGAGGATCACAGAGCTGATGCAATTCTCTTTCTT
ATGCAGGTATGTTTGCAACCACTGCTGCCAAAATGGCCTCTGCCATCTTTTACCTAGTTGGTTTTTTTTGAAAT
GAACACACACACACACACACACACACACACACACTCTCACACACACACTCACAGAAATATCTCTT
TATTGACTGCAATCCATCTTTCAACATATGGAGTCTTTTTGAATACTAGAGGTATAGCCTTAAAGAATATGAGT
ATCAGAAGATACTTTAGTTTCATCTTTCCCTGCCTGATTATCAGCCAATTGTTAGTATGCCATCAGTCAAGCCA
TTAATAAAAAATAATGAACAAGGTGAACAGGATAGGTTAACTTGTAGTCTATGTATAAGTTTCCGAGGTTGCATGC
AGAATTTAGCCTATATGTGAATTTTTCTGGAATAATGGTCAGTAACTATTGTGAGATTCTTTTTTTTTTTTTT
TTTTTTTTGAAGACAAAGTCTTGCTCTCCAGCCTGGGTGACAGGGCAAGATTCCATATTAAGGAGGAGTATCCTTAAATTTTT
TTGAGAAGTACTCAGAGTAGAGAACTTACTCCCGAATGAATATACTAACCTCTTTGAGGAGAGCTCCCCAAATGA
CCATAAATTCATATAGCTCAGCCATCACTAGACCGTGATTTTCAGCCAGAAGATATGGTGAATGGTCTTGTAAGA
TGCCCTTAAATGGAAGGAGAGACTGCAATATTGTTATACAGGCCTTTTAAAAAAGTATCCTTAAATTTTT
AGTTACAGAGTTCACTTTTTTCCCTACTTTTCTTTGTTTTAGATTATAAGCCCAGGATTGTTTACCAGAAAGGT
ACCCTTTAGTCTGCAGGAACCTTTGAAAACAGATGTGGTATTGAAGAATATCTCTGTAAGCCCAGAACTTATCCA
TTGTATAAAGAATTTTATTTTCCCCAGTAGACCGGGAGCTCCTCAAGGGCAGGGACCTTTGCAAGTCTTTGACTC
CCTAGCACTGAACCCAGCATCTGGCAAATCTTATTTCACTGTGACTTTATTTTGGCTGAATGGCCTAAAAATGCGC
TTGTACTGAGCACCTAATACATTTAATTTAATTTTTTAAATTTTTTATTCAATAATATAGACATGGAGTCCCCCTAT
GTTGCCACGCTGGCTCAAACCTCTGGCCTCAAGGATGTTCTGCTCGGTCTCCCAAAGTGTGGGATTACAGG
CATGAGCCACTGCACCAAGCCCTAACACATTTAATAAATTGTAAGGAGGAAGAACAGTGGACCGCAGTGAGATAT
GGTCTACAGGGAAAATGAAGAACCTCTTCAAAAATGATGATCTTCAGGCCTGTAATCCAGAATTTGGGAGCCG
AGGCGGGTGGATCACTTGAGCCCAGGAGTTCAAGACCAGCCTAGGAAACATAGCGAAACCACATCTCTACCGAAA
AATACAAAATTAGCCATGCTTGTAGTCTAGCTATTAATACGTGGGAGGCTGAGGTGGGAAGATGGTTTGTAGTC
CGGGAGGTGGAGGTTACAGTGAGCCACTGTACCCCAACCTGGGTGACAGAGTGAGACCCCATCTCAAAACCAAAA
AAGATGACCTTTATTATGTTTGACTTTTAAAAAATGTAGCCAAAGTAAAGTGTGATTAGCATAACCCCGATC

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FIGURE 1058B

ACATGTTGTTGTTGAAAATGAGCACTGGCTTGCATAAAATGGACATTCATGGACATGAAATGGACATTAATGATT
TTACATATGTTAAGAAGAGAATTTTAGACTTGAGACCTTAGGGAGATCTGTTGATAGAATCCCTATGCTCTACA
GATAAGGATACTTAGTGAAGGGACTTTCCTAAGCTCACAGACCCAGAAGAGTAGTACTCTTCCAGCCAATGGTG
ATGCTTACTTATGXTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGGGTCTTGCTCTGTCGCCCAGGCTGGAGTGC
AGTGACACGATCTCGGCTCACTGCAGGCTCCGCCTCCCGGGTTCACGCCGTTCTCCTGCCTCAGCCTCCTGAGTA
GCTGGGACTGCGGACGCCACCACCACGCCCGGCTGATTTTTTGTGTTTTTGGTAGAGACGGGGTTTCGCCGTGT
TAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCGTTCCGCCTCGGCCTCCCAGAGTGCTGGGATTACAGGTG
TGAGCCACCGCGCCCGGCTACTTATGTGTTTTAGAAAAATCTTTAAATGTTAAAAGATGACAGGTAATTTCTA
GACCATATGAAGTAGCCAGTTGTCCCAGGATTAGTTTATTATGTGTATATCAGCCATTATTTTACAGAGTCATC
TCACATAAATCCACACAACCTTAAAGGATTAAAGGATGGTTTTCTGTGCAACTGAAACATATGCACAGAATGACAA
TAGTCGTGATACTTTCTTTATTCTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTCGCCCTGGCTGGAGTG
CAGTGGTGTGATCTCGGCTCACTGCAGCCTCCATCTCCCAGATTACGGCGATTCTCATGCCTCAGCCTCCCGAGT
AGCTGGGATTATAGGTGCACGCCACCCGCCTGGGTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCAGCATGTT
GGCCAGGCTGATCTTGAACTCCTGACCTCAAGTGATCCGCCACCTCAGCCTCCCAAAGTGCTGAGATTACAGG
TGTGAGCCACCACGCCTGGCCAGTCATGCTACTTTATAATCTGAAGTTACCAGTTCTTTGCAGTGTTTCACATTA
GGGGCATTCTCCAAAGGGAACTTTAGAGATAACAAATATGTTAAAAATATCGAATAAAGTTAGAGATGTGGGGAG
ACATTCTACTCTACAGAGAGCAACCATACTTCTCTATAGACTGTGCACTGAAGAAAGGGCGGAGGGGATGCGC
CTGTTAGAGTTAGAATCTTGGCTTGATAGGCAAGGAAATTGACCCGGTGTGGTGGTTCTTATATTGGTAAGAAGA
CCCTTCTTTGGTTTCTTTTTTTCCAGATAGCTAAAGTCAATGTCAGTGATTGCTTCAAGCATGATAGTCTTACCA
GCCTACACTCTAAGCTTTTTCTTATGCTTCCAGAATGACTTACTCAGCAATCACTTCTACTTTGTATTAAAAACAGT
TTTGGTTATTACAGGTAGGAAGAAGAGAAAAAAACCAGGCTGTTTCCAGTTGTCTGGGGTTTACATTATGTTACCT
CTCAGACTGTTAGTGAAATCAGGGAGACTAGTGGTTTTTACGGCATCAGAGATACCAAATGTATAACAGACAGAT
GTCATCTTACTCTTTTTAAGTCATGGACAAAAAGACAGACACATTGCCCTGTAACTTTCAGATCTTCTGTAACCT
TTTTAAACAACATAGGAGAGAAGTTGGTACTTGTACCCAAGGGAAGAGAAAGTTAATGAGTAGAAAAGACAGAAT
TTATTTAGGAAAACGATGGAATTAAGCTCTGGACAAAACATGCATCAGTGATGCATAACATTTTTGTTAATTGGG
TCTTAACAGGTTTCTGACTCATATGGTAATCATTGTAGAAGTGGGTCTTACTAGACCACGCCAGTGGCAAATCGC
GAAGCTGTAAGAACTCTTACCTCCCTGTGTGTGTCACCTGAGTGTGTGGGGGGCGTACGTTTCTGTAGCTTAA
TTTAGGTTCCACATACACTTCAGTGGTTAAACCTGAGCTAGACTCAAATAGTTTGTTCATTAAAGAAAATGAAT
CTTTTATGTGGACCAAGGTCAGGTTAGTTAATTTGTTTGCTTTTATTGGAATAACTTTTCCATTCCAATTCATC
ACTTAATTTTAAAGTGTTCTACTAAAATACCCATTAAAGTCCTTTACATTTCTCACAGACTAGGGCTATGACAGA
TTCATAAGACGTTTCTTTTTTCTCAAGGCACAAAAGGTAGCTTTTCTGGTCATCAACCTAGTCTTCTTGTTC
TAATTTACAAACAGTGGGGCAACATTTTATATAATACCAATATGAACTCTAATTGCAAAGAGACTAAATGAAATC
TTCACACGAAGCAAGATTAAATAAAAATATAAAATGTGCTTGACTGTGGTAAAACATTTCTTTTAAAAAAATAGT
ATGACTTTTTTTTTTTTTTTTTGCTAAATCTTTCTTTTTTGTACACCTCACCTCTTCTTCACTGATGCATTTTCC
AGCAACTGGAAGTTCCTCTGGCTAGGAAAGTAAATGTGATGTTATCATTCTAATTAGTGATTACAAAAGA
TCAATTAATGTTATAATTA AAAACAGTGTCTAGATCTGTTGTTTGTAGTGAATAAATGTGACAATTACTTTGTTT
ATTGACATAGATGTGTTGAATTTCTCCCTAGATTTTAAAGGGATGCATTTTAGTGCTGATGTGTGCATTTAACT
GTGGACAGTAGGAACAAGGCAAGCATATTAGGGGAAGAGTAGGGCCCTAATGTCTAAGCTACAGACATATTTTA
GCATGCTTGACACCTTCTTGGTATATGATGCTATATCAGCAACTTGACTCATTGGATCTGGAGCCTCTAGCT
TTTAATATTTTATCACTAAATGCTTAAGTGTTTATGTTG

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FIGURE 1059

[illegible]

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FIGURE 1060

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELLQREKDRQCRGLELIA
SENFCSRAALEALGSCLNNKYSEGYPGKRYYGGAEVVDEIELLCQRRALEAFDLDPAQWGVNVQPYSGSPANLAV
YTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLIIAGT
SAYARLIDYARMREVCDEVKAHLLADMAHISGLVAAKVIPSFFKHADIVTTTTTHKTLRGARSGLIFYRKGVKAVD
PKTGREIPYTFEDRINFAVFP SLQGPHNHAI AAVAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSG
GTDNHLVLVDLRPKGLDGARAERVLELV SITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVDFIDE
GVNIGLEVKSKTAKLQDFKSFLDKDSETSORLANLRQVEQFARAFPM PGFDEH

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FIGURE 1061

TGCACTCACCTCCTAGAGACCAGGCTGCCATCATGCTCTTGGGAAGCTTGTGGAGAATGTCAAGTACGAAGATATCT
ATGAGGACCGGCACGATGGTGTCCCGAGCCACAGCTCGCGGCTCTCCAGCTGGGCTCGGTGTCCCAAGGACCCT
ACTCGAGCGCCCCGCGCTGTCCACACCCCGTCGTGCGACTTCCAGCCGCCCTACTTCCACCCCCCTACCAGC
CGCTCCCCTACCACCAGAGCCAGGACCCCTACTCCACGTCAACGACCCCTACTCCCTGAACCCACTGCACCAGC
CCCAGCAACATCCCTGGGGGCAACGGCAGCGGCAAGAAGTGGGTTCGGAAGCCGGCTCTCTCCTGCCCCAGCCTC
GGGCCGCCTTGCCCCAGCTCTCGGGCCTTGACCCCGGAGGGACTACCACTCGGTCCGCCGGCCGGACGTGCTGC
TGCATTTCGGCGCACACGGCCTGGACGCGGGCATGGGTGACAGCCTCTCGCTGCACGGCCTCGGCCATCCCGGAA
TGGAAGACGTCCAGTCAGTTGAAGATGCCAATAACAGCGGCATGAATCTATTGGACCAGTCTGTCAATAAAAAAG
TTCCAGTTCTCCCAAATCGGTGACTTCTCTAATGATGAATAAAGACGGCTTCCTGGGAGGCATGTCTGTCAACA
CCGGCGAGGTGTTTTGCTCCGTCCCAGGCCGTTTGTCTCTGCTCAGTTCAACTTCGAAGTACAAAGTAACTGTGG
GAGAAGTTCAGAGACGGCTGTGCCCCCTGAATGCCTCAATGCATCTCTCCTCGGCGGAGTCCTCAGAAGAGCCA
AATCGAAAAATGGGGGAGATCTTTGCGAGAAAAGGCTAGAAAAAATCGGTTTGAATTTACCCGCGGGCAGGCGCA
AAGCAGCAAATGTCACGTTACTCACCTCCCTGGTGGGAAGGAGAAGCTGTTCACTTAGCTAGGGATTTTGGGTACA
TTTGCGAAACGGAGTTTCCCGCCAAAGCCGTCTCTGAGTATTTGAACCGGCAGCACACAGACCCGAGTGACCTGC
ACTCCCGAAAGAATATGCTGTTGGCCACCAAGCAACTTTGTAAAGAATTTACGGATCTACTGGCGCAGGACCGGA
CACCGATAGGGAACAGCCGACCCAGCCCCATCCTGGAGCCGGGGATCCAGAGCTGCCTCACGCACTTCAGCCTCA
TCACGCACGGCTTCGGCGCCCCGGCCATTTGCGCCGCGCTCACGGCCCTGCAGAACTATCTCACCGAGGCGCTCA
AAGGCATGGACAAGATGTTCTTGAACAACACCACCACTAACAGGCACACGTCTGGGGAAGGCCAGGTAGTAAAA
CTGGCGACAAGGAGGAGAAACACAGGAAATTGAAAAATTTTT

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FIGURE 1062

MLWKLVENVKYEDIYEDRHDGVPSHSSRLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYFPPPYQPLPYHQSQDPY
SHVNDPYSLNPLHQPPQHPWGQRQRQEVGSEAGSLLPQPRAALPQLSGLDPRRDYHSVRRPDVLLHSAHHGLDAG
MGDSLSLHGLGHPGMEDVQSVEDANNSGMNLLDQSVIKKVPVPPKSVTSLMMNKDGFLLGGMSVNTGEVFCSVPGR
LSLLSSTSKYKVTVGEVQRRRLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKIGLNLPAGRRKAANVTLLTSL
VEGEAVHLARDFGYICETEFPKAVSEYLNROHTDPSDLHSRKNMMLLATKQLCKEFTDLLAQDRTPIGNSRPSP I
LEPGIQSCLTHFSLITHGFGAPAICAALTALQNYLTEALKGMDKMFLNNTTTNRHTSGEGPGSKTGDKEEKHRK

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FIGURE 1063

GGGGCATT TTTGTGCCTGCCTAGCTATCCAGACAGAGCAGCTACCCCTCAGCTCTAGCTGATACTACAGACAGTACA
ACAGATCAAGAAGTATGGCAGTGACAACCTCGTTTGACACGGTTGCACGAAAAGATCCTGCAAAATCATT TTTGGAG
GGAAGCGGCTTAGCCTTCTCTATAAGGGTAGTGCCATGGATTCCGTAATGGAGTTTTGCTTGACAGATGTTGTA
ATCAAGGGCCTACTCTAACAGTGATTTATAGTGAAGATCATATTATTGGAGCATATGCGGAAGAGAGTTACCAGG
AAGGAAAGTATGCTTCCATCATCCTTTTGCACCTCAAGATACTAAAATTTCAGAATGGAACTAGGACTATGTA
CACCAGAAACACTGTTTTGTTGTGATGTTACAAAATATAACTCCCCAACTAATTTCCAGATAGATGGAAGAAATA
GAAAAGTGATTATGGACTTAAAGACAATGGAAAATCTTGGACTTGCTCAAAATTGTACTATCTCTATTTCAGGATT
ATGAAGTTTTTCGATGCGAAGATTCAGTGGATGAAAGAAAGATAAAAGGGGTCATTGAGCTCAGGAAGAGCTTAC
TGTCTGCCTTGAGAACTTATGAACCATATGGATCCCTGGTTCAACAAATACGAATTCTGCTGCTGGGTCCAATTG
GAGCTGGGAAGTCCAGCTTTTTCAACTCAGTGAGGTCTGTTTTCCAAGGGCATGTAACGCATCAGGCTTTGGTGG
GCACTAATACAACCTGGGATATCTGAGAAAGTATAGGACATACTCTATTAGAGACGGGAAAGATGGCAAAATACCTGC
CGTTTATTCTGTGTGACTCACTGGGGCTGAGTGAGAAAGAAGGCGGCCTGTGCAGGGATGACATATTCTATATCT
TGAACGGTAACATTTCGTGATAGATACCAGTTTAATCCCATGGAATCAATCAAATTAATCATCATGACTACATTG
ATTCCCCATCGCTGAAGGACAGAATTCATTGTGTGGCATTGTATTGATGCCAGCTCTATTCAATACTTCTCCT
CTCAGATGATAGTAAAGATCAAAAGAATTCGAAGGGAGTTGGTAAACGCTGGTGTGGTACATGTGGCTTTGCTCA
CTCATGTGGATAGCATGGATTTGATTACAAAAGGTGACCTTATAGAAATAGAGAGATGTGAGCCTGTGAGGTCCA
AGCTAGAGGAAGTCCAAAGAAAACCTTGGATTTGCTCTTTCTGACATCTCGGTGGTTAGCAATTATTCTCTGAGT
GGGAGCTGGACCCTGTAAAGGATGTTCTAATTTCTTTCTGCTCTGAGACGAATGCTATGGGCTGCAGATGACTTCT
TAGAGGATTTGCCTTTTGTAGCAAAATAGGGAATCTAAGGGAGGAAATTATCAACTGTGCACAAGGAAAAAAATAGAG
TATGTGAAAGGTTACGTAAATTTCTCACATCACAGAAGATTAAAATTCAGAAAGGAGAAAAACACAGACCAAAG
AGAAGTATCTAAGACCAAAGGGATGTGTTTTATTAATGTCTAGGATGAGGAAATGCATAGAACATTGTAGTACTT
GTAAATAACTAGAAATAACATGATTTAGTCATAATTGTGAAAAATAGTAATAATTTTTCTTGGATTTATGTTCTG
TATCTGTGAAAAAATAAATTTCTTATAAACTCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1064

MAVTTRLTRLHEKILQNHFGGKRLSLLYKGSVHGFRNGVLLDRCCNQGP TLTVIYSEDHIIIGAYAEESYQEGKYA
SIILFALQDTKISEWKLGLCTPETLFCCDVTKYNSPTNFQIDGRNRKVIMDLKT MENLGLAQNCTISIQDYEVFR
CEDSLDERKIKGVIELRKSLLSALRTYEPYGSLVQQIRILL LGPIGAGKSSFFNSVRSVFQGHVTHQALVGTNTT
GISEKYRTYSIRDGKDGKYL PFI LCDSLGLSEKEGGLCRDDIFYILNGNIRDYQFNPMESIKLNHHDYIDSPSL
KDRIHCVAFVFDASSIQYFSSQMIVKIKRIRREL VNAGVVHVAL LTHVDSMDLITKGD LIEIERCEPVRSKLEEV
QRKLG FALSDISVVSNY SSEWELDPVKDVLILSALRRMLWAADD FLEDLPFEQIGNLREEI INCAQGKK

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FIGURE 1065

CAGCTACAGCACAGATCAGCACCCATGAAGCTTCTCACGGGCCTGGTTTTCTGCTCCTTGGTCCTGAGTGTGAGCA
GCCGAAGCTTCTTTTCGTTCCCTGGCGAGGCTTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGA
GAGAAGCCAATTACATCGGCTCAGACAAATACTTCCATGCTCGGGGGAAGTATGATGCTGCCAAAAGGGGACCTG
GGGGTGCCTGGGCCGCAGAAGTGATCAGCAATGCCAGAGAGAATATCCAGAGACTCACAGGCCATGGTGCGGAGG
ACTCGCTGGCCGATCAGGCTGCCAATAAATGGGGCAGGAGTGGCAGAGACCCCAATCACTTCCGACCTGCTGGCC
TGCCTGAGAAATACTTGAAGCTTCCCTCTTCACTCTGCTCTCAGGAGACCTGGCTATGAGCCCTCGGGGCAGGGATTC
AAAGTTAGTGAGGTCTATGTCCAGAGAAGCTGAGATATGGCATATAATAGGCATCTAATAAATGCTTAAGAGGTG
G

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FIGURE 1066

MKLLTGLVFCSLVLSVSSRSFFSFLGEAFDGARDMWRAYSDMREANYIGSDKYFHARGNYDAAKRGPGGAWAAEV
ISNARENIQRLTGHGAEDSLADQAANKWGRSGRDPNHFRPAGLPEKY

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FIGURE 1067

ATGAGGCCCCAGGAGACCGTTGGTCTTCATGTCTTTGGTGTGTGCACTCTTGAACACATGGCCAGGGCACACAGGG
TGCATGACGACAAGGCCTAATATTGTCCTAATCATGGTTGATGACCTGGGTATTGGAGATCTGGGCTGCTACGGC
AATGACACCATGAGGACGCCTCACATCGACCGCCTTGCCAGGGAAGGCGTGCGACTGACTCAGCACATCTCTGCC
GCCTCCCTCTGCAGCCCCAAGCCGGTCCGCGTTCTTGACGGGAAGATAACCCATCCGATCAGGTATGGTTTCTAGT
GGTAATAGACGTGTTCATCCAAATCTTGACAGTCCCCGAGGCCTCCCTCTTAATGAGACAACACTTGCAGCCTTG
CTAAGAAGCAAGGATACAGCACGGGGCTTATAGGCAAATGGCACCAGGCTTGAAGTGCAGACTCCCGAAGTGAC
CAGTGCCACCATCCATATAATTATGGGTTTGACTACTACTATGGCATGCCGTTCACTCTCGTTGACAGCTGCTGG
CCGGACCCCTCTCGTAACACGGAATTAGCCTTTGAGAGTCAGCTCTGGCTCTGTGTGCAGCTAGTTGCCATTGCC
ATCCTCACCCCTAACCTTTGGGAAGCTGAGCGGCTGGGTCTCTGTTCCCTGGCTCCTGATCTTCTCCATGATTCTG
TTTATTTTCTCTTGGGCTATGCTTGGTTCTCCAGCCACACGTCCCCTTTATACTGGGACTGCCTCCTCATGCGG
GGGCACGAGATCACGGAGCAGCCCATGAAGGCTGAACGAGCTGGATCCATTATGGTGAAGGAAGCGATTTCTTTT
TTAGAAAGGCACAGTAAGGAACTTTCTTCTCTTTTCTCTCTTTCTTACGTGCACACACCTCTCCCCACCACG
GACGATTTCACTGGCACCAGCAAGCATGGCTTGTATGGGGATAATGTGGAAGAGATGGACTCCATGGTGGGCAAG
ATTCTTGATGCTATCGATGATTTTGGCCCTAAGGAACAACACCCTTGCTACTTTACATCAGATCACGGAGGGCAT
TTGGAAGCTAGGCGAGGGCATGCCCAACTTGGTGGATGGAATGGAATATACAAAGGTGGAAAAGGCATGGGGGGC
TGGAAGGTGGAATCCGCGTCCCAGGAATTGTCCGATGGCCTGGAAGGTACCAGCTGGACGGTTGATTAAAGGAA
CCTACAAGTTTAAATGGATATTTTACCAACTGTCGCATCAGTGTGAGGAGGAAGTCTCCCTCAGGACAGGGTCATT
GACGGCCGAGACCTCATGCCCTTGCTGCGAGGGCAACGTCAGGCACCTCGGAGCATGAATTTCTTTTCCACTACTGT
GGCTCCTACCTGCACGCCGTGCGGTGGATCCCCAAGGACGACAGTGGGTGAGTTTGGAAAGGCTCACTATGTGACC
CCGGTATTCCAGCCACCAGCTTCTGGTGGCTGCTATGTACCTCATTATGCAGATGTTTCGGAGAACAGGTTACC
TACCACAACCCCCCTCTGCTCTTCGATCTCTCCAGGGACCCCTCAGAGTCCACACCCCTGACACCTGCCACAGAG
CCCCTCTATGATTTTGTGATTAAAAAGGTGGCCAACGCCCTGAAGGAACACCAGGAAACCATCGTGCCTGTGACC
TACCAACTCTCAGAACTGAATCAGGGCAGGACGTGGCTGAAGCCTTGCTGTGGGGTGTTCCCATTTTGTCTGTGT
GACAAGGAAGAGGAAGTCTCTCAGCCTCGGGGTCTAACGAGAAGAGATTAA

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FIGURE 1068

MRPRRPLVFMSLVCALLNTWPGHTGCMTTRPNIVLIMVDDLIGIGDLGCGNDTMRTPHIDRLAREGVRLTQHISA
ASLCSPSRSAFLTGRYPISRGMVSSGNRRVIONLAVPAGLPNETTLAALLKKQGYSTGLIGKWHQGLNCDSRSD
QCHHPYNYGFDYYYGMPFTLVDSWPDPSRNTLAFESQLWLCVQLVAIAILTTLFGKLSGWVSVPWLLIFSMIL
FIFLLGYAWFSSHTSPLYWDCLLMRGHEITEQPMKAERAGSIMVKEAISFLERHSKETFLLFFSFLHVHTPLPTT
DDFTGTSKHGLYGDNVEEMDSMVGKILDAIDDFGLRNNTLVYFTSDHGGHLEARRGHAQLGGWNGIYKGGKGMGG
WEGGIRVPGIVRWPGKVPAGRLIKEPTSLMDILPTVASVSGGSLPQDRVIDGRDLMPLLQGNVRHSEHEFLFHYC
GSYLHAVRWIPKDDSGSVWKAHYVTPVFQPPASGGCYVTSLCRCFGEQVTYHNPPLLFDLSRDPSESTPLTPATE
PLYDFVIKKVANALKEHQETIVPVTYQLSELNQGRWLKPCCGVFPFCLCDKEEEVSQPRGPNEKR

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FIGURE 1069

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTTCGACTGCTAGAGCCGAGCGAAGCGATGCCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAAGTGTAAAATTCGAGCC
ATATAAATAAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTCTTCTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTTTAATGTGCATTATTAAAAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAATAATAAATCAAG
TAATACAATCTTAAGTGTGTTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTTT
TATAGATCTTTTAGTTTTCAACTCAGCTTTTACAATAAAAAAGGATTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACCTTCATATTTGATCTTTTCTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCCAATGGTTT
TTCCTCTTTTTATTTACTTCATTTTCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAAGTCAGTGAAACTGTCAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGT
GAAAACTGAGCAGGTGTTTGTGTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCACTTATTAAACATGTTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1070

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGVLDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

FIGURE 1071

CCGGATCAAAATTGATTGACAGTCGGTATAACTGATCCTGAGAAGATGCGCGTCCGGTGGTGGTGGCTGTAGCGCT
TCGGAGAGACTGCCTCCGCCCTTCCCCGGCCTGGAGCCGGAGTCCGAGGGGGCGGCCGGGGGATCAGAAACCCGAG
GCTGGGGACAGCGACACCGAGGGGGAGGACATTTTACCGGCGCCGCGGTGGTCACTAAAACATCAGTCTCCAAAG
ATAACTACATCCCTTCTTCCCATCAACAATGGCTCCAAAAGAAAATGGGATCCATGAAGAACAAGACCAAGAGCCA
CAGGATCTCTTTGACAGATGCCACAGTGGAGCTATCCTTGGACAGCACACAAAATAATCAGAAGAAGGTGCTAGCC
AAAACACTCATTTTCTTCTCCTCAGGAAGCCACAAAATTCTTTCGAAGCCCCAGCCAACCTATGAGGAGCTAGAG
GAAGAAGAACAGGAGGATCAATTTGATTGACAGTCGGTATAACTGATCCTGAGAAGATAGGGGATGGTATGAAT
GCATATGTAGCCTACAAAGTTACAACACAGACAAGCTTACCATTGTTTCAGAAGCAAACAGTTTGCAGTAAAAAGA
AGATTTAGTGACTTTCTGGGTCTTTATGAGAAGCTTTCCGAGAAGCACTCTCAGAATGGCTTCAATTGTCCCTCCG
CCCCCGGAGAAGAGCCTCATAGGGATGACAAAAGTGAAAGTTGGGAAGGAAGATTCTTCTTCTGCAGAAATTTCTT
GAAAAACGGAGGGCCGCTTTAGAAAAGGTACCTTCAGAGGATTGTAAATCATCCTACCATTGTACAGGACCCTGAC
GTCAGAGAGTTCTTGGAAAAAGAAGAGCTGCCACGTGCCGTGGGTACCCAGACATTGAGTGGTGCTGGTCTCCTC
AAGATGTTCAACAAAGCCACAGATGCCGTGACGAAAATGACCATCAAGATGAATGAATCAGACATTTGGTTTGAG
GAGAAGCTCCAGGAGGTAGAGTGTGAGGAGCAGCGCTTACGGAAGTGCATGCTGTTGTAGAACTCTAGTCAAC
CATAGGAAAGAGCTAGCGCTGAACACAGCCAGTTTGCAAAGAGTCTAGCCATGCTTGGGAGCTCTGAGGACAAC
ACGGCATTGTACGGGCACTCTCCAGCTGGCTGAGGTGGAAGAAAAAATTGAGCAGCTCCACCAGGAACAGGCC
AACAATGACTTCTTCTCCTTCTGCTGAGCTCCTGAGTGACTACATTTCGCTCCTGGCCATAGTCCGCGCTGCCTTC
GACCAGCGCATGAAGACATGGCAGCGCTGGCAGGATGCCCAAGCCACACTGCAGAAGAAGCGGGAGGCCGAGGCT
CGGCTGCTGTGGGCCAACAAGCCTGATAAGCTGCAGCAGGCCAAGGACGAGATCCTCGAGTGGGAGTCTCGGGTG
ACTCAATATGAAAGGGACTTCGAGAGGATTTCAACAGTGGTCCGAAAAGAAGTGATACGGTTTGAGAAAGAGAAA
TCCAAGGACTTCAAGAACCACGTGATCAAGTACCTTGAGACACTCCTTTACTCACAGCAGCAGCTGGCAAAGTAC
TGGGAAGCCTTCTTCTGAGGCAAGGCCATCTCCTAATGGACCAAGGACCCAGAGCCCACCTGTGTGACGCT
GCCTTTTTTATACACTGTCTCTCCTCCACCTTGATGGACCCCTAGTGATGCATCCTGCCTAGGCTGGACTTAACCCC
TTCTCCTCCTGTCCCCACGACCAACTGTCCCCAGTTACTCTAACCGTTATTTCAATTTAGCTXCCATATATATTTTC
TTACCTAAGAGAATAGTTTCTGCTTTAAGXAAAAGACCTACAATAGGTGGTGGAAATTATGGGATGGGGTGGAGT
ATTGATATAAATATATAAATACAAATGTATATTTTTCAGGATGTGGTTTAGGAAGTGGGAATAACGTTTTTCATGG
CACCATCAGGAGTTAACAGAAAACC

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FIGURE 1072

MASGGGGCSASERLPPFPGLPESEGAAGGSEPEAGDSDEGEDIFTGAADVSKHQSPKITTSLPINNGSKEN
GIHEEQDQEPQDLFADATVELSLDSTQNNQKKVLAKTLIXLPPQEATNSSKPQPTYEELEEEEQEDQFDLTVGIT
DPEKIGDGMNAYVAYKVTQTSLPLFRSKQFAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEKSLIGMTKVKVG
KEDSSSAEFLEKRRALERYLQRIVNHPTMLQDPDVREFLEKEELPRAVGTQTLGAGLLKMFNKATDAVSKMTI
KMNESDIWFEEKLQVEVECEEQRLRKLHAVVETLVNHRKELALNTAQFAKSLAMLGSSSEDNTALSRALSQLAEEVEE
KIEQLHQEQANNDFFLLAELLSDYIRLLAIVRAAFDQRMKTWQRWQDAQATLQKKREAEARLLWANKPDKLQQAK
DEILEWESRVTQYERDFERISTVVRKEVIRFEKEKSKDFKNHVIKYLETLLYSQQQLAKYWEAFLPEAKAIS

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FIGURE 1073

CTCTCATCACTTCTGAGCACGGAGCAATGGCCTCTCGCTGGGCTGTGCAGCTGCTGCTCGTGGCAGCCTGGAGCA
TGGGCTGTGGTGAGGCCCTCAAGTGCTACACCTGCAAGGAGCCCATGACCAGTGCTTCCTGCAGGACCATTACCC
GCTGCAAGCCAGAGGACACAGCCTGCATGACCACGCTGGTGACGGTGGAGGCAGAGTACCCCTTCAACCAGAGCC
CCGTGGTGACCCGCTCCTGCTCCAGCTCCTGTGTGGCCACCGACCCCGACAGCATCGGGGCGGCCACCTGATCT
TCTGCTGCTTCCGAGACCTCTGCAACTCGGAACTCTGAACCAGGGCGGCAGGGCGGAAGGTGCTCCTCAGGCAC
CTCCTCTCTGACGGGGCCTGGCTCCACCTGTGATCACCTCCCCCTGCTTCCTGCTGCTGTGGCACAGCTCACTCA
TGGGGTCTGAGGGGAGAGAAGCACACCAGGGGCGCCCTCTGCCTTCCATACCCACGCTTATAAAACATAACTAA
GCCAAGAGTGGA

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FIGURE 1074

MASRWAVQLLLVAAWSMGCGEALKCYTCKEPMTSASCRTITRCKPEDTACMTTLVTVEAEYPFNQSPVVTRSCSS
SCVATDPDSIGAAHLIFCCFRDLCNSEL

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FIGURE 1075

ATGAATTCTCAGCAGCAGAAGCAGCCTTGCACCCACCCCTCAGCCTCAGCAGCAGCAGGTGAAACAACCTTGC
CAGCCTCCACCCAGGAACCATGCATCCCCAAAACCAAGGAGCCCTGCCAACCAAGGTGCCTGAGCCCTGCCAC
CCCAAAGTGCCTGAGCCCTGCCAGCCCAAGATTCCAGAGCCCTGCCAGCCAAGGTGCCTGAGCCCTGCCCTTCA
ACGGTCACTCCAGCACCAGCCCAGCAGAAGACCAAGCAGAAGTAA

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FIGURE 1076

MNSQQQKQPCTPPFPQQQQVKQPCQPPFQEPICPKTKEPCQPKVPEPCHPKVPEPCQPKIPEPCQPKVPEPCPS
TVTPAPAAQQKTKQK

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FIGURE 1077

GGCACGAGGCTCCTCCAGCCTCTCACACTCTCCTCAGCTCTCTCATCTCCTGGAACC**ATG**GCCAGCACATCCACC
ACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCT
GGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTT
GGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGC
GGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTGGTTTCGGTGGTGGAGCC
GGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCCTTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCC
CCTGGAGGCATCCAAGAGGTCACCGTCAACCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGATCCCACCATC
CAGCGGGTGCAGGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTG
CGGTTCTGGAGCAGCAGAACAAGGTTCTGGAAACAAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTG
AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATTGTCTGGGGAA
CGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAAGAACAAATATGAGGATGAA
ATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGATGCTGCCTACATGAACAAG
GTTGAAGTGAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCTGAGAGCCTTGTATGATGCAGAGCTG
TCCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTCTCCATGGACAACAACCGCAACCTGGACCTGGAC
AGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGCTGAGGCTGAGTCTGGTAC
CAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAGCAGGAGATT
GCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAAGCAGTGCGCCAACCTGCAG
GCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAACAAGCTGGAAGGGCTGGAG
GATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTG
GCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAAGGAGTGCAGGCTGAATGGCGAAGGCGTT
GGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGCCAGTGGTGTCTGGCAGTGGC
TTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGGTGGCTTCAGTTCAGCAGT
GGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAAGTACACCACCACCTCCTCC
TCCAGCAGGAAGAGCTATAAGCACT**TAA**AGTGCCTCTGCTAGCTCTCGGTCCCACAGTCCCTCAGGCCCTCTCTGG
CTGCAGAGCCCTCTCCTCAGGTTGCCTTTCCTCTCCTGGCCTCCAGTCTCCCCTGCTGTCCCAGGTAGAGCTGGG
TATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTATACCATCTGAGCACCCATTGCTCACCATCAGATCA
ACCTCTGATTTTACATCATGATGTAATCACCACTGGAGCTTCACTGTTACTAAATTATTAATTTCTTGCCCTCCAG
TGTTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTGCAGAAAATTGCCAGGGGCT
TATTTTCAGAACTTCCACTTACTTTCCACTGGCTCTCAACTCTCTAACTTATAAGTGTGTGAACCCCCACC
CAGGCAGTATCCATGAAAGCACAAAGTGACTAGTCCTATGATGTACAAAGCCTGTATCTCTGTGATGATTTCTGTG
CTCTTCGCTGTTTGCAATTGCTAAATAAAGCAGATTTATAATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1078

MASTSTTIRSHSSSRRGFSANSARLPGVSRSGFSSVSVSRSRGSGGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRAGGSYGFGGAGSGFGFGGGAGIGFGLGGGAGLAGGFGGPGFPVCPGPGGIQEVTVNQSLLTPLNL
QIDPTIQRVRAEEREQIKTLNNKFASFIDKVRFLEQQNKVLETKWTLLEQGTCTVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELRGMQDLVEDFKNKYEDEINKRTAAENEFVTLKKDVDAAYMNKVELQAKADTLTDEINFLRA
LYDAELSQMQTHISDTSVLSMDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQORGEMALKDAKNKLEGLDALQKAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLEGEECRLNGEGVGQVNISVVQSTVSSGYGGASGVGSGLGLGGSSSYSGSLGVGG
GFSSSSGRAIGGGLSSVGGGSSTIKYTTTSSSSRKSYKH

CGGACGCGTGGGCGGTTTACGCCATCGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTCGAGCCGCATCG
CCCCCGGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCCCTTAGCACACCACAGCTCAGC
CAGAACAGAAGGCCTCGAATCTCATTTGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTG
ACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTG
TGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCATGGCCAAATGA
TTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCCACTGGGCATGTTCCAGTCTAACGCTA
CCTGTGCCCCCATAACGGTGTGTCTGTGGGTGGGGTGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGT
GTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGACTGTC
TGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGCTCTGTGGCACACTCCCCTCCTTCT
CCAGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTTCCACGCCCTGAGCACATGGAACCCATGAAGTCCCTT
CCTCCACTTATGTTCCCAAAGGCATGAACTCAACAGAATCCAACCTCTTCTGCCCTCTGTTAGACCAAAGGTACTGA
GTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGCTCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCCTCC
CAAACCTTCAGGTAGTCAACCACCAGCAAGGCCCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGG
CCACTGGGGGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCACACAAGC
ATTTTGACATCAATGAGCATTTGCCCTGGATGATTGTGCTTTTCTCCTGCTGCTGGTGCTTGTGGTGATTGTGGTGT
GCAGTATCCGGAAAAGCTCGAGGACTCTGAAAAAGGGGCCCGGCAGGATCCCAGTGCCATTGTGGAAAAGGCAG
GGCTGAAGAAATCCATGACTCCAACCCAGAACCAGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATA
TCCTGAAGCTTGTAGCAGCCCCAAGTGGGAAGCCAGTGGAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGA
GGGAGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTACGCAGCTCTGCAGCACTGGACCA
TCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGA
AGATTCTGTGGGCTGATGGAAGACACCACCCAGCTGGAAACTGACAAACTAGCTCTCCGATGAGCCCCAGCCCGC
TTAGCCCCGAGCCCCATCCCCAGCCCCAACGCGAAACTTGAGAATTCGCTCTCCTGACGGTGGAGCCTTCCCCAC
AGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCTTCTCCGCTGTGACTCTACATCCAGCGGCTCCT
CCGCGCTGAGCAGGAACGGTTCCCTTTATTACCAAAGAAAAGAAGGACACAGTGTGCGGCAGGTACGCCCTGGACC
CCTGTGACTTGCAGCCTATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGA
TTCCCCAGGCTGAGGACAACTAGACCGGCTATTTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACCC
TCCTGGACTCTGTTTATAGCCATCTTCCTGACCTGCTGTAGAACATAGGGATACTGCATTCTGGAAATTACTCAA
TTTAGTGGCAGGGTGGTTTTTTAAATTTCTTCTGTTTCTGATTTTTGTGTTGTTGGGGTGTGTGTGTGTGTTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTTTAAACAGAGAATATGGCCAGTGCTTGAGTTCTTTCTCCTTCTCTCT
CTCTCTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTTATAAGCCTTTGCCAGGTGTAAGTTGTGAAATA
CCCACCACTAAAGTTTTTTAAGTTCATATTTTCTCCATTTTGCCTTCTTATGATTTTTCAAGATTATCTGTGC
ACTTTAAATTTACTTAACTTACCATAAATGCAGTGTGACTTTTCCACACACTGGATTGTGAGGCTCTTAACTTC
TTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCTTTATGTCTCTTAAACATTACACCTACTTTTTAAA
AACAAATATTATTACTATTTTTATTATTGTTTGTCTTTTATAAAATTTCTTAAAGATTAAGAAAATTTAAGACCC
CATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTTAAATATGTCTTGATAGTTCATATTCATGGCTG
AAACTTGACCACACTATTGCTGATTGTATGGTTTTACCTGGACACCGGTGTAGAATGCTTGATTACTTGTA

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FIGURE 1080

MGTSFSSSTALASC\$RIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKCPAGTY
VSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMIEKLPCAALTDRECTCPPGMFQSNATCAPHTVC
PVGWGVRRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCL\$QNLVVIKPGTKETDNVCGTLP\$FSSSTSPSP
GTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTL\$PNLQV\$VNH
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKKHFDINEHLPWMIVLFLLLVLVIVVCSIRKSSR
TLKKGPRQDPSAIVEKAGLKK\$MTPTQNREKWIYYCNGHGIDILKLVA\$QVGSQWKDIYQFLCNASEREVA\$AF\$N
GYTADHERAYAALQHWTIRGPEASLAQLISALRQHR\$NDVVEKIRGLMEDTTQLETDKLALP\$MSP\$PLSP\$PIPS
PNAKLENSALLTVEP\$PQDKNGFFVDESEPLL\$RCDSTSSGSSALS\$RNGSFITKEKKD\$TVLRQVRLDPCDLQPIF
DDMLHFLNPEELRVIEEIPQ\$EDKL\$RLFEIIGVKSQ\$ASQTLLDSVYSHLPDLL

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FIGURE 1081A

ATTTTCCTGCCTCAGCCTCCCGAGCAGCTTGGACTACAGGTAGTTCCAATTTGCCAGCAGAAATGAGTACAGAAAG
AGACTCAGAAACGACATTTGACGAGGATTCTCAGCCTAATGACGAAGTGGTTCCCTACAGTGATGATGAAACAGA
AGATGAACTTGATGACCAGGGGCTCTGCTGTTGAACCAGAACAAACCGAGTCAACAGGGAAGCAGAGGAGAACC
GGAGCCATTGAGAAAAGAAATGTACATGGCAAGTCAAAGCAAACGATCGCAAGTACCACGAACAACCTCACTTTAT
GAACACAAAATTCTTGTGTATTAAGGAGAGTAAATATGCGAATAATGCAATTAACACATACAGTACAACGCATT
TACCTTTTATACCAATGAATCTGTTTGAGCAGTTTAAAGAGAGCAGCCAATTTATATTTCTGGCTCTTCTTATCTT
ACAGGCAGTTCTCAAATCTCTACCCTGGCTTGGTACACCACACTAGTGCCCTGCTTGTGGTGTGGGCGTCAC
TGCAATCAAAGACCTGGTGGACGATGTGGCTCGCCATAAAATGGATAAGGAAATCAACAATAGGACGTGTGAAGT
CATTAAAGGATGGCAGGTTCAAAGTTGCTAAGTGGAAAGAAATTCAGTTGGAGACGTCATTTCGTCTGAAAAAAA
TGATTTTGTTCAGCTGACATTTCTCTGCTGTCTAGCTCTGAGCCTAACAGCCTCTGCTATGTGGAAACAGCAGA
ACTGGACGGAGAAACCAATTTAAATTTAAGATGTCATTGAAATCACAGACCACTACCTCCAAAGAGAAGATAC
ATTGGCTACATTTGATGGTTTTTATTGAATGTGAAGAACCCAATAACCGACTAGATAAGTTTACAGGAACACTATT
TTGGAGAAACACAAGTTTTCTTTGGATGCTGATAAAATTTGTTACGTGGCTGTGTAATTAGGAACACCGATTT
CTGCCACGGCTTAGTCATTTTTGCAGGTGCTGACACTAAAATAATGAAGAATAGTGGGAAAACAGATTTAAAG
AACTAAAATTGATTACTTGATGAACACTACATGTTTTACACGATCTTTGTTGTTCTTATTCTGCTTTCTGCTGGTCT
TGCCATCGCCATGCTTATTGGGAAGCACAGGTGGGCAATTCCTCTTGGTACCTCTATGATGGAGAAGACGATAC
ACCTCCTACCGTGGATTCTCTATTTCTGGGGCTATATCATTGTTCTCAACACCATGGTACCCATCTCTCTCTA
TGTACGCTGGAAGTGATTCTGCTTTGGACAGAGTCACTTCATCAACTGGGACCTGCAAATGTACTATGCTGAGAA
GGACACACCCGCAAAAGCTAGAACCACCACTCAATGAACAGCTCGGGCAGATCCATTATATCTTCTCTGATAA
GACGGGGACACTCACACAAAATATCATGACCTTTAAAAAGTGCTGTATCAACGGGCAGATATATGGGGACCATCG
GGATGCCCTCTCAACACAACCACAACAAAATAGAGCAAGTTGATTTAGCTGGAATACATATGCTGATGGGAAGCT
TGCATTTTATGACCACTATCTTATTGAGCAAAATCCAGTCAGGGAAAGAGCCAGAAGTACGACAGTTCTTCTTCTT
GCTCGCAGTTTGCCACACAGTCATGGTGGATAGGACTGATGGTCAGCTCAACTACCAGGCAGCCTCTCCCGATGA
AGGTGCCCTGGTAAACGCTGCCAGGAACCTTTGGCTTTGCCTTCTCGCCAGGACCCAGAACACCATCACCATCAG
TGAAGTGGGCACTGAAAGGACTTACAATGTTCTTGCCATTTTGGACTTCAACAGTGACCGGAAGCGAATGTCTAT
CATTGTAAGAACCCAGAAAGGCAATATCAAGCTTTACTGTAAAGGTGCTGACACTGTTATTTATGAACGGTTACA
TCGAATGAATCCTACTAAGCAAGAAACACAGGATGCCCTGGATATCTTTGCAAATGAACTCTTAGAACCCCTATG
CCTTTGCTACAAGGAAATTGAAGAAAAAGAAATTTACAGAATGGAATAAAAAGTTTATGGCTGCCAGTGTGGCCTC
CACCAACCGGGACGAAGCTCTGGATAAAGTATATGAGGAGATTGAAAAAGACTTAATTCTCTGGGAGCTACAGC
TATTGAAGACAAGCTACAGGATGGAGTTCCAGAAACCAATTTCAAACTTGCAAAAGCTGACATTAAGATCTGGGT
GCTTACTGGAGACAAAAGGAAACTGCTGAAAAATATAGGATTTGCTTGTGAACCTCTGACTGAAGACACCACCAT
CTGCTATGGGGAGGATATTAATTCTCTTCTTCATGCAAGGATGGAAAACAGAGGAATAGAGGTGGCGTCTACGC
AAAGTTTGCACCTCCTGTGCAGGAATCTTTTTTCCACCCGGTGGAAACCGTGCCTTAATCATCACTGGTTCTTG
GTTGAATGAAATTCTTCTCGAGAAAAAGACCAAGAGAAATAAGATTCTGAAGCTGAAGTTCCCAAGAACAGAAGA
AGAAAGACGGATGCGGACCCAAAGTAAAGAGGAGCTAGAAGCTAAGAAAGAGCAGCGGCAGAAAAACTTTGTGGA
CCTGGCCTGCGAGTGCAGCGCAGTCATCTGCTGCCGCTCACCCCAAGCAGAAGGCCATGGTGGTGGACCTGGT
GAAGAGGTACAAGAAAGCCATCACGCTGGCCATCGGAGATGGGGCCAATGACGTGAACATGATCAAACTGCCCA
CATTGGCGTTGGAATAAGTGGACAAGAAGGAATGCAAGCTGTCATGTCGAGTGACTATTCCTTTGCTCAGTTCCG
ATATCTGCAGAGGCTACTGCTGGTGCATGGCCGATGGTCTTACATAAGGATGTGCAAGTTCTTACGATACTTCTT
TTACAAAACCTTTGCCTTTACTTTGGTTCAATTTCTGGTACTCCTTCTTCAATGGCTACTCTGCGCAGACTGCATA
CGAGGATTGGTTTCATCACCTCTACAACGTGCTGTACACCAGCCTGCCCGTCTCTCATGGGGCTGCTCGACCA
GGATGTGAGTGACAACTGAGCCTCCGATTCCCTGGGTATACATAGTGGGACAAAGAGACTTACTATTCAACTA
TAAGAGATTCTTTGTAAGCTTGTGTCATGGGGTCTTAACATCGATGATCCTCTTCTTACATACCTCTTGAGCTTA
TCTGCAAACCGTAGGGCAGGATGGAGAGGCACCTCCGACTACCAGTCTTTTGCCGTCACCATTCCTCTGCTCT
TGTAATAACAGTCAATTTCCAGATTGGCTTGGATACTTCTTATTGGACTTTTGTGAATGCTTTTTCAATTTTGG
AAGCATTGCACTTTATTTTGGCATCATGTTTGACTTTTCATAGTGTGGAATACATGTTCTCTTCCATCTGCATT
TCAATTTACAGGCACAGCTTCAAACGCTCTGAGACAGCCATACATTTGGTTAACTATCATCTGACTGTTGCTGT
GTGCTTACTACCCGTCGTTGCCATTCGATTCTGTCAATGACCATCTGGCCATCAGAAAGTGATAAGATCCAGAA

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FIGURE 1081B

GCATCGCAAGCGGTTGAAGGCGGAGGAGCAGTGGCAGCGACGGCAGCAGGTGTTCCGCCGGGGCGTGTCAACGCG
GCGCTCGGCCTACGCCTTCTCGCACCAGCGGGGCTACGCGGACCTCATCTCCTCCGGGCGCAGCATCCGCAAGAA
GCGCTCGCCGCTTGATGCCATCGTGGCGGATGGCACCGCGGAGTACAGGCGCACCGGGGACAGCTGATCCCTTAC
CCCCAGGCTGGGATGCGGCCACAAAGCACGTCTATTTTTTTATGAAAGACTCTCAGGACTTTCTGTGTGTGTGTG
AATTGCATTTCATCACAAGATATTGAAGACAATAAATAATCTTTATAACAACTCCTTGGGTTGGACTATTAAAC
AATAGCAGAGCCAAGAAATAGGACTTTTAAAAGTCCTATTATTCGGCCGGGCGTGGTGGCTCAGGTCTGTAATCC
CAGCACTTTAGGAGGCTGAGGAGGGGAGATCACCTGAGGCCAGGAGTTTCGAGACCAGCCCAGCCAACATGGTGAA
ACCTGTCTCTACCATAAAATTAAAAATTAGCCGGGCTTGGTGGTGGGCACCCGTAATCCCACCTATTTGAGAAGC
TGAAGCAGAAGAATCGCTTGAACCTGGGAGATGGAGGTTACAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCT
GGGTGACAGAGCAAGACTCTGTCTTAAGAAAAATTTAAAAATAGGCCGGGCATGGTGGCTCATGCCTGTCATCCT
AGCACTTTGGGAGGCCAAGGCAGGTGGATCACTTGAGGTCAGGAGACCAGCCCGGCCAACATGGTGAAACCCCAT
CTCTACTAAAAATACAAAAATTAGCTGGAATCGCTTGAAACCTGGGAGGTGGAGGTTCCAGTGGAGCCGAGATC
GTGGCACTGCACTCCCAACCTGAGCAACAGAGTGAGACACCAGCTCMAAAAAAATTTTTTAATAATAATAAAAA
GTCCTATTATTCAACTGGTTATGTACATTATGGTTGAAAGGGAACGTTTAAATCCCAGTCTCAATCCAGGGCAAT
AGAATTACAAAGCATGTTGTATTTTCAGTTCAAATGGTATTGTATTATAAAATTACAGTTACATTTTCTTTTCGGT
GATCTTCAGCATAATTTCCAGAGGCCCTTTTCTCCTATAGGCCATCTTATTAACAGATTTTAAATTTAT
AGTAATGACAAATGACTTATCAGTGTTTCATCATCTGAAAGCTAAGTGGTTCGTTCAATCACTTTTCAAAGTTGA
TAGTAGATTGCATGGTTTCATGTTTCCTCATATTGGTTTATTAATTCATTTAATCAAGGAAATAACTTCAGAT
TCCATAAAGTTTCAGTTTATTTTTAGTTTACTACTAGGTGAGATAGCACATTACATACTTTTACTATCAAATATT
ATTTTAGCAGCTTCCCATAGTACCAAATGATTGATTCCCTACTCTCATTTTTTAAAGCATATAAATATTTATGG
GCTTAAAAAGGGGGTTTTTAAAAACTGAGGATATCAGTAATAAATTGCAGAATATTTTGCAARGCTTTCTTTTTC
GAAAGCCAACTTTTGTGCTGCCTATATGCAAAGTATTTATCAGGGACTTGAMCAARGACCTCAYTCTTTTTC
ACTTTGTCTTATGTGCGAGAGAAAAGGTTATTGGCAGCCACATTCCARGACTTGGGGAATGGTGTGTCCTTTTAA
ATTTGAAGATGACTTTAGGTAATTATGGAACTCCTCAAAGAGGAGAAAGTAATTTTTTCCAGACATTTTCTC
ATTCGTGTCTTTTACACACTAGTTTCCATAGTTCGAGAATTCGTTTTTTACCATTGGGCTGTGAATGTTTACA
ATATCAGTCCTGTTGAATTCCTATGAGGTAATCACAATGTGTATATGTTTCTAGGTATGATAAAAGAATG
TATGGCTTTTTATTCTGTGGAAGTAAATCCTGAACGTTTACAACTTTCTTAACTTGTAATAAAAAATTGTA
AGTTTTTCTTTTTTTACAGAAACTTAGCTTGTTAATTCTGTAGTTTCAGATTTCTCTCCTGTTTTTGCAA
TTGTGGGAAAGATTGACAATGCAATGTGTCAAAGACATACTGTTGGGTGCAATATTAACAATTTTAAATGCAA
TTTCTTTGGATAAATTATTTCTATATCTGTAAATCTGAGATTTAATGTATATTTTGTTTAAAAAATGATTTAG
TAAATCTTTGAAAAGTAAAAAATTTTTTTTTT

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FIGURE 1082

MSTERDSETTFDEDSQPNDÉVVPYSDDETEDELDDQGS AVEPEQNRVNREAEENREPF RKECTWQVKANDRKYHE
QPHFMNTKFLCIKESKYANNAIKTYKYNFTFIPMNLFEQFKRAANLYFLALLILQAVPQISTLAWYTTLVPLLV
VLGVTAIKDLVDDVARHKMDKEINNRTCEVIKDGFRKVAKWKEIQVGDVIRLKKND FVPADILLSSSEPNSLCY
VETAELDGETNLKFKMSLEITDQYLQREDTLATFDGFIECEEPNNRLDKFTGT LFWRNTSFPLDADKILLRGCVI
RNTDFCHGLVIFAGADTKIMKNSGKTRFKRTKIDYLMNYMVYTI FVVLLILLSAGLAIGHAYWEAQVGNSSWYLYD
GEDDTPSYRGFLIFWGYIIVLNTMVPISLYVSVEVIRLGQSHFINWDLQMYA EKDTPAKARTTTLNEQLGQIHY
IFSDKTGTLTQNIMTFKKCCINGQIYGDHRDASQHNHNKIEQVDFSWNTYADGKLAFYDHYLIEQIQSGKEPEVR
QFFFLAVCHTVMVDRTDGQLNYQAASPDEGALVNAARNFGFAFLARTQNTIT ISELGTERTYNVLA ILDFNSDR
KRMSIIVRTPEGNIKLYCKGADTVIYERLHRMNPTKQETQDALDIFANETLR TLCLCYKEIEEKEFT EWNKKFMA
ASVASTNRDEALDKVYEEIEKDLILLGATAIEDKLQDGV PETISK LAKADIKIWVLTGDKKETAENIGFACELLT
EDTTICYGEDINSL LHARMENQRNRGGVYAKFAPPVQESFFPPGGNRALIITG SWLNEILLEKKT KRNKILKLKF
PRTEEERMRTQSKRRLEAKKEQRQKNFVDLACECSAVICCRVTPKQKAMVVD LVKRYKKAITLAIGD GANDVNM
IKTAHIGVGISGQEGMQAVMSSDYSFAQFRYLQRLLLVHGRWSYIRMCKFLRYFFYKNFAFTLVHFWYSFFNGYS
AQ TAYEDWFI TLYNVLYTSLPVLLMGLLDQDVSDKLSLRFPGLYIVGQRDLLFNYKRFFV SLLHGVLTS MILFFI
PLGAYLQTVGQDGEAPSDYQSFAVTIASALVITVNFQIGLDTSYWTFVNAFSIFGSI ALYFGIMFDFH SAGIHVL
FPSAFQFTGTASNALRQPYIWLTIILTAVCLLPVVAIRFLSMTIWPSESDKI QKHKRLKAEEQWQRRQ QVFRR
GVSTRRSAYAFSHQRGYADLISSGRSIRKKRSPLDAIVADGTAEYRRTGDS

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FIGURE 1083

GTTCACTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACATCCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGAAATGGTGGGCACAGTGGCTGTCACTGTCAATGCCTCAGTGGAGAGTGTCTGGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACCTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGCTCATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGCTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAACCAAAAAAGTTATCACACCGGAAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTTAACTTTACTATAAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG
ATGAGTGTAACATTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCTCCATTTATAATGAAGATTAAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAAGTTCTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTTTCTTGTGTATTAAATTAACATTTTTTAAAAAGCAGATATTTTGTCAAGGGGCTTTCATT
CAAAGTCTTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAAATATTTTTGTTTTGTATTGAAGAAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAAGAGCAGAAAAATATGCTTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATTGTCATTTTTGTTCTGTGAAAAATAAATTCCTTCTTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAACTGACAATCCAATTTGAAAGTTTGTGTGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1084

MATHALEIAGLFLGGVGMVGTVAVTVMQWRVSAFIENNIVVFENFWEGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1085

ATTACTGTGAGCCTCCTTGTCAGCACTCCACCAAAGCCTCTGCCTCAGCCTTACTGTGAGTCTGGTTGACAGTAG
CTTCTAAGATGTCCTCCAGCAACACACACTGCCAGTGACCCCTCTCCCCTGCCCTCAGTCAGGAGCTCCTCAAGACTG
TTCCTCCTCCAGTCAATACCCATCAGGAGCAAATGAAACAGCCAACTCCACTGCCTCCCCATGCCAGAAGGTGC
CTGTGAGCTCCAGTGGAGGTCCCATCAAAGCAAGAGGAAAAGCACATGACTGCTGTAAAGGGACTGCCTGAGC
AAGAATGTGAGCAACAGCAGAAGGAGCCACAGGAGCAGGAGCTGCAGCAACAGCACTGGGAACAGCATGAGGAAT
ATCAGAAAGCAGAAAACCCAGAGCAGCAGCTTAAGCAGGAGAAAACACAAAGGGATCAGCAGCTAAACAAACAGC
TGGAAGAAGAGAAGAAGCTCTTAGACCAGCAACTGGATCAAGAGCTAGTCAAGAGAGATGAGCAACTGGGAATGA
AGAAAGAGCAACTGTTGGAGCTCCCAGAGCAGCAGGAGGGGCACCTGAAGCACCTAGAGCAGCAGGAGGGACAGC
TGAAGCACCCGGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGC
AGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGCTGGAGCTCCCAGAGCAGCAGGAGGGGCAGC
TGGAGCTCCACAGCAGCAGGAGGGGCAGCTGGAGCTCTCTGAGCAGCAGGAGGGGCAGCTGGAGCTCTCTGAGC
AGCAGGAGGGGCAGCTGGAGCTCTCTGAGCAGCAGGAGGGACAGCTGAAGCACACTGGAGCACCAGGAGGGGCAG
CTGGAGGTCCCAGAGGAGCAGATGGGGCAGCTGAAGTACCTGGAACAGCAGGAGGGGCAGCTGAGGCACCTGGAT
CAGCAGGAGAAGCAGCCAGAGCTCCCAGAGCAGCAGATGGGGCAGCTGAAGCACCTGGAGCAGCAGGAGGGGCAG
CCTAAGCATCTGGAGCAGCAGGAGGGGCAACTGGAGCAGCTGGAGGAGCAGGAGGGGCAGCTTGAAGCACCTGG
AGCAGCAGGAGGGGCAGCTGGAGCACCGTGGAGCACCAAGAGGGCAGCTGGGGCTCCCAGAGCAGCAGGTGCTG
CAGCTGAAGCAGCTAGAGAAGCAGCAGGGGCAGCCAAAGCACCTGGAGGAGGACGAGGGGCAGCTGAAGCACCTG
GTGCAGCAGGAGGGGCAGCTGAAGCATCTGGTGAGCAGGAGGGGCAGCTGGAGCAGCAGGAGAGGCAGGTGGAG
CACCTGGAGCAGCAGGTGGGGCAGCTGAAGCACCTAGAGGAGCAGGAGGGACAACCTGAAGCATCTGGAGCAGCAG
CAGGGGCAGTTGGAGGTCCCAGAGCAGCAGGTGGGGCAGCCAAAGAACCTGGAGCAGGAGGAGAAGCAACTGGAG
CTCCCAGAGCAGCAAGAGGGCCAGGTGAAGCACCTGGAGAAGCAGGAGGCACAGCTGGAGCTCCCAGAGCAGCAG
GTAGGACAGCCAAAGCACCTGGAACAGCAGGAAAAGCACCTAGAGCACCCAGAGCAGCAGGACGGACAACCTAAAA
CATCTGGAGCAGCAGGAGGGGCAGCTGAAGGACCTGGAGCAGCAGAAGGGGCAGCTGGAGCAGCCTGTGTTTGCC
CCAGCTCCAGGCCAGGTCCAAGACATTCAACCAGCCCTGCCACAAAGGGAGAAGTATTGCTTCCTGTAGAGCAC
CAGCAGCAGAAGCAGGAGGTGCAGTGGCCACCCAAACATAAATAACCAACCCGAGTGTCCAGAGGCCCTCAGATC
GTCTCATACAAGGGAAGAGAGAGCCACTGGCTCCACTTATTTGCGGTCCGCTAGGTGGCCCGTCTCATCTGTGAA
CTTGACTCTGTCCCTCTACATGTCTCTTTAATGGGGTGAGGGTGGGGGAGAGAGGGAATTATTGTCCAGTGCCAA
CCCCAATGACCCCAATCCCAACCTCAGGTGAGCAGAGCCTCTACTTGAGGGACTATTGTTACTATAGGAATCCTT
ACTTCCCCAGTATTGAAGCTGAATCAGTGAGTGTGTACAATGATACATAATAAATCCTGGAAGTCTTGGGATCCT

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FIGURE 1086

MSQQHTLPVTLSPALSQELLKTVPPPVNTHQEQMKQFTPLPPPCQKVPVELPVEVPSKQEEKHMTAVKGLPEQEC
EQQQKEPQEQELQQQHWEQHEEYQKAENPEQQLKQEKTORDDQQLNKQLEEEKKLLDQQLDQELVKRDEQLGMKKE
QLLELPEQQEGHLKHLEQQEGQLKHPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLELPEQQEGQLEL
PQQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLKHTGAPGGAAGGPRGADGAAEVPGTAGGAAEAPGSAG
EAARAPRAADGAAEAPGAAGGAA

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FIGURE 1087

GTGCTCCTGGAGGGAAAAAGAAATACAGCCTCAACAGATTAAAAACAAAAGTCACACTTAAGGATCCTTCTAGT
CACATCAGCAGTGTTCTGCCTTTATGTAGTAGTTGGGCATATAATCCTTCCACACAGCCCCTGCAGGGAAAAGGCT
AATCTTACGGATAATCCACGTGAGATTTCCACACAAGAGAAAAGCACACGCATAGTGAAATGTCAGTCTTTTCAG
TAATGAGGATACCTTTAAGGCACTCTTGAGCTCTCGGCAACCACAACATAATAGTTGAAAGATCAAGATTGGCTC
CACGAAAGTGATACGGAGGTTAGGATGCTACTTGCTGCAAACAAGCCCTACTTTGGCCAACATCCTGCTTATTTT
TCAAAAAAGAGGGACAGTGAAAAACAAAACGACATTGGGACATGCTGCTCAAGGTAGTTATATATACGATAAGTT
GTATATATGATCACTGGTAGCCTACCAAAGCTGTAGAAATCTAGGACTGTGCTAATCAGTATCAAACCAAAGATT
TCTATCTCTTCCCGAAAGAGAGGGTATGTGCACCAGTCTACAGTTCCAAAGGACTGCAACAAATGTAGATGGTTC
TGTCTCATCCCTGAGATCAGTTCTACTGAAATGGCAACAACAACTCCAAATACATCTCTCCCTTCTTGAAATCC
CTAAAGCACTATCGCACTCCTAAATGCATTTCTCCACAAGTTAGCACTTGATTGTATACTGTCTTTAATCCTTC
ATTGTTTCATGTATGAAGTTTTTAATCACCCCTAACCCCAAAAAAGATTTCGGTTGTCAAGGGATATATTTCTA
TCCCTGCCAGCACAGTGCTGGACATAGTGAGTACTGAACACCTAAGAGGCACTCATTGAGACTGACTTCTACAGG
ACTTCTACGTGTGTGATAAAAGCCTGTGAATCGTGAGTCCCTGAAATATGGTAGCCTGGCCCAGCTTCTAAAGAG
GACCTTCGTAGCCACAAGGCATGCTAAACCTCTAGGGTCTGATGCTGTTTTTGTTCCAAATATAAACGAAAGGCA
CTAGTCAGCCGCTGCATAGACTTTCTAAACAGTGAGTAAATACCATGGAATGTCAGAAATGACTTTATCATCGT
CATCTTGAAGAAAAATATGAACACTGATGAAGGTCATTTTTTTTTTTTGACATCTTTCTGTGGCAAAGCTCTTAG
AATTCTTTGCAGTTAGCTGCTGAACAGTATGATGATTGGGGATTTTCTGAATCATTTGTACTTAGATACTGGAG
TTCAGAAGATGTGATTTTTGTGCTTTTCAGAAAAAGGAACGTGGTAGGGAGTGTTTTTTCCACGCTTTTCCAG
TAACCTTTGCAAAAGCATTAATTGTTCACTGGCAATTACTAAATGTATTTTGTGCTCTGAGAACTCAGCAGTGT
ACTGAGATGTGGCTGGCTGTGCCATCGTCATAGTGCACAGTGACTTTTCTGTTTCTTATCACTAAAGACTGAGGT
GAGGTTATGAAACTTTTCAATTGGTCCCATCGTTGTGCGCAGGGTGCAACTGGCTACCTAGAAGCTGATGGCAGGAG
ACTGTTTTCACACACAGGAGATTGTGAGCTGTGTAAGTAGTCATCGCCACTCAAGTAGGACAAGGGTCTTACCCAA
GGCTAGGACCGCCCTGCGGAAACAGAAACATAGACTGAGAACAAACCTCAAGACTATCAGTGTGACCTCCCCATA
ACAAGAGAACCCCATATATAGTTTGAGACTTTCCCTTGAGAACTTATACTAAAACTATTACTCATCAGTCATTC
ACTGATCAGCAGCTAAAGTCCATGAGACCAAATGGTTTTATATGGAACCAACGAAGTGGGAGCTAAAACTGCACA
GTGGTCATTCTTTGGCCTCTCCTTGGCTTTATGACTTAAACCAACTACAACCTTCCCTATAGCTTCTAAGCAGTTT
CATCAGCATTACTTGGGAAAACGTGTTGCAAGTCAACCAGTCACTAGGATATTTCTACCCATGCAACGGAAGAAA
AACCCATTACTCCAGAAGAGTATATCTAAGTAACTAAAATGGAGGCAGAAAATGTTTTAAGGATTTTCTTCAAAG
AATAAGCCACAGCAATGGTTTTGTAGAAAACCTCTGTGCTTTTGAGCAAGGACTTTTGCCCTCTAGAAAGCAACT
GAGGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAGCGGATCACCTGAGGTCA
GGAGTTTTGAGACCAGCCTGGCCAACATGGTAAAATCCCGTCTCTACTAAATTTATAAAAAATTAGCCGGGCATGA
TGGTGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTG
CAGTGAGCCAAGATTGCACACTGCACTCCAGCCTGGGTGACTAGCAAACTCCATCTCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 1088

AAAAAAAAAAAAATCCACAAAGAAAAGCCCAGGCTCAGAGCCTTCACGATAGAATTTTTCTAAGCAGTTAAGGAA
GAATTAACACCAATCCTTCACAGACTCTTTCCAAGAATACAGCAGGTGGGAACCTTTCCCATTTCATACGGAAACG
GGAGGCCGCACCCCTTAGGAATGCACACGTGGGGTCCTCAAGAGGTTACATGCAAATAACCCCAGCAGCACACA
GAGAAGGCCGCATAAGCCGCGACCAGGAGGGGTTGCTCCCGAGTCCGTGGCAGGAACCAGAGGCCACATGTGGCTG
CTCGTATTTAAGTTAATTAAAATGGAACGATGGCCGGGCGTG

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FIGURE 1089

MQTNPSSTQRRRISRDOEGLLPSPWQEPEATCGCSYLS

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FIGURE 1090A

CACTCTCCTTCCACCTCGGACCGGCCGTGGCTCCGCAGAGCCAAAGCTCGCTTGTCCCCGGAACCGCCCTGCTGC
CGCCGCTGCTTCTCTGCTCGCGGTTAGCCCGTCAGTCCCTGCTCTGTGCGCGCTCCATCTGGGCCATGGATG
GCGGGGATCTGATGAGCTTCTTTCTTCTGGCATCATTAACGGACCTTTTACCATGAATAGTTCTACTCCTTCTAC
AGGTGTGTATGGCTTTCTTAGAAATGGCTTCTGAGGAAGCTGCCGTTACTATGGTGAATTATTACACTCCTATTA
CTCCTCACCTTCGAAGCCAGCCTGTTTATATTCACTATTCCAATCACAGAGAACTTAAGACTGACAATCTACCTA
ATCAAGCTCGAGCCCAAGCTGCACTGCAGGCTGTGAGTCCGCTCCAATCAGGAAGCCTGGCCCTTTCTGGAGGTC
CTTCCAATGAAGGCACAGTCTTACCTGGGCGAGAGCCCTGTGCTTCGAATAATTATTGAAAACCTCTTTTACCCTG
TTACCCTGGAAGTTCTTCATCAGATATTTCTAAATTTGGCACAGTCTTGAAGATTATCACCTTTACAAAGAATA
ATCAGTTTCAAGCCTTGCTTCAGTATGCTGACCCAGTAAATGCACATTATGCCAAAATGGCTCTGGATGGCCAGA
ATATCTATAATGCATGCTGCACTCTGCGCATTGACTTCTCCAAGCTCATCAGCCTTAATGTGAAATATAATAATG
ACAAAAGCAGAGACTTCACTCGCTTAGACCTTCTTACTGGTGTATGGCCAGCCATCCCTTGAACCCCTTAATTGGC
TGCTGCTTTTGGGGGACCGGGGTATAATTTCTTACCATATGCAGGGGCTGCTGGATTTGCCCCAGCCATTGGA
TTTCTCAAGCTACAGGTCTATCAGTTCAGCTGTTCTTGGAGCTCTTGGTCTCTCACAATCACCTCTTCTGCT
GTCAGTGAAGGATGGCCATTCTTGGGGCTAGTGGTATACCAGGAAATTTCTGTTCTACTCGTCACAAATCTCAAT
CCTGATCTTATCACACCACATGGGCTTTTTATCCTATTGGAGTCTATGGTGTATGATCGAGTGAAGATTATG
TTTAATAAGAAAGAAATGCCTTGGTTCAGATGGCGGATGCAATCAAGCTCAGCTAGCAATGAACCATCTAAGT
GGTCAGAGACTTTATGGGAAAGTGTCTCGTGCTACACTGTCCAAACATCAAGCAGTACAGCTTCTCGAGAGGGA
CAAGAAGACCAAGGTCTGACTAAGGATTTTCAAGCAATAGTCCTTTGCATCGCTTTAAAAAGCCGGGCTCTAAAAAC
TTCCAGAATATCTTTCCACCATCAGCCACTCTGCATCTTTCCAACATTCCCCCTTCTGTTACAGTGGATGATCTG
AAGAACCTTTTTCATAGAAGCTGGATGTTTCAAGTGAAGGCTTTTAAATTTCTTTCAGAAAGATCGCAAAATGGCGCTC
ATTCAATTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGACCTTGGAGAAAATCAC
CACCTCAGAGTTTCTTCTCAAAATCTACAATCTGACTTTTCTGTGAATTTTTCTCCTAAAATGACCATAATT
TCAGTAAAACCTTCAGACATAGACTGAAGCAGCTCAAGACCAATTTTGCTCTTTCACAAAATAACTCTTTCTG
AGTTTGATATTCAAGTATATTTTAAAAATCAAGGGATTTTTTTTTTTTTTGTATTCCCCCTGCCCCGCCAGTCAA
AGGTTTCTTTTCCCTTTTTTACCATGGTTTCTACAAAATAACCTTCAGGAAAAAGAAAATCAGGAAAAAAATTTT
TTTTCAATAATCTTATTCCCTATATTAAATTAGATTTGAAGAGGATTAACGTTGTTTGTAGTTGGGTCCAGATCA
GCCTTATACAACATTTCTAAACTCATTGTACTTTTTAAAAATTTAAACACAGACTTCTAAAATTACTTGATGTA
AGTAATTTAAATCACTTATGACCAAGTTATTAACCTTATGAATCAGAAGTCTGACCCTGTAGGAAATTATATTC
ACATATAAAGTACATCAGATCTTTGCCATATATTGATGGTTATTATGCATAAACACATTGAGTTGTGTGGAAGC
AGATTTATAAACCTGCATGTTTTCTTGAATGATTTCTTTTTTTTCACTGTAAGACACTCCTTTAAATAATGCCTA
TCTTTAACTTTTTAAGACTATTTGAAAAATGCAGTGTCTCAGCTGTCCCAGGGAAATTAAGTGGAAATCAACT
AAGATCTGTTAATAAGATGTCAGAATAACTAATAATTTTATTAGGAAAAATCATGTTTTAAATTTCAAAATGAC
ACTTATTTGTCAAGTAATATGATCTTGAAAAATTTTAAAGAAAAATAATCCTACTTATAAACTACTTTTTTATAA
TTGTTTTTCAGAAAAAAGTTTACAGTCTTAAGGAAAATATTCAAGTCTATCATATGGTTTGACAGATTTTTTAAA
AGTTATTTTTGGTAAGGTCTTCTTTTAGAAAAAATTAATCTCAAGGGTTTTTTGTACCATAATCTCTAATA
CTTACTCAGAATTACTGTGTATTTACTTAATTTCTTATTATGTGCCTTATTATGTGCTTAAGATACAATAGGTTA
GAGTTTAATCTAAATATCTTGAAAGCTATATTGTGGGCTTGGTAAGCATTTTGTTTTTTCTTCTGTTTTGGT
AAGGATTTAAAATTTTTTTCATTGCAATTTTAAAGTGGTTTTCAATAAGTAATAGTTTTTATCAAATTTTTTGGTGC
TTGGTGCAGAGACGGTGTGGGGAAGGGTGAATGGTTTTGGGAATAATTCAGTGCACACCTGTAGGCCTCTTTACA
TTGTGACTGATAGGGGTATTGTCATATCAATTTGGGGCTGTAGAGTGAATCTCAGTTTCATCTTTTTTACCCTAT
CAGAATTTGTCTCAGGATTACTTGGTTTTTCTCAGTCTCAAGCGAGAAGTGTCTTTTCTTTGTTAATGTGACTT
TCATTACTGAGTACCCACGTATTTGGAGTATGAGAAGGTGGGTATTCTCATACTCTGTCCCTCTCTTTTTTCT
TGAATGTAAGAGTACATTTTAAATGTTGCTTCAGTGATTGTATAATGTAAAATGTTTCTTTTTTAAATAAGAACTT
TGCTATTATTTCTTCAATTGTTGATCAGAATTTTTTAAAGCAGAATTTGTCAAAGGGTCATTTTTTGTCTACC
CCTTTTACACTTTTTCAGATTCTCAAAGTGTCTCATCTCAACTTTTAAAGAATAAAGGNNNNNNNNNNNNNNNN
NN
NN
NNCATAGTGTGACCCCTTCTCTTAAAGTAAAAATTAAGAAAATCTCAATCTCTTTGCTGTATTCCAGTGATTAA

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FIGURE 1090B

TTTGAACATAGGGAGGTTTTTACAGAAAGAAATTTTACCAAAAAATAGAGACTGCAAGAGATGATACAGATTGTTT
AAAAAGCAGAATTCACCTCACCCTGAGCAACACTTAGTTGGTAGAATAGAAAGGAGGGATACTAAGTTAAGACTT
TTCAAATGGATCAGTTTGGCTGAATAGATAGATATACTCATGTATGTAGTTGTGGGAGTTTTTAGTTTTTTGTTT
TTTTACTTATGAAATAAGTTTTTGACCTAGACACAAGGGGTATATGAAGGAGGAAAAAAATTTCTTTGCAAAATCT
CCCAAAACTTGCTTTTTTTTTCCCTTCCACACAGGCACTATTATAATTTTCAGTGCCATGTTAAATTGGATTATTT
CATTTACTTTAAGTTAGGAATTACTGTGTAATTTATTAATTCATGATTCTCATAACATTACAGCATAAGTGTAGCA
AAGTTGCTAATAACGGAAGGGGATCATAGTGGTGTGTAATGTAACTTTGAAGTAGGGAATGGCCTTTTAAGTCTG
AGAGAGAACATTTGAATCCTTTTCAGGGATTGTGTAGGGGTGTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNN
AGATAAGTGTATATACATAAATACACTCTTCTAAAGTTGTATATACATATGCACATTACATACATTTTAATTTAT
TGACAAAATTAACCAATTAAGATTTGGAGATGTGGGATGTTCTTGTTTTAAATAGCATGTTTGAAACCATCAG
TTTGTGTCTAAATTAGCTGTAGCACATGGATGTTGTCCATATTAAGCTATTTGCTGTTTGAATTATAGAGGTCT
ACAGTATTTGTGTTGGCATAGTTTTTGTAAAAAAGATTAAAAAATATCAGGATGGTGGAAAACTAGATCTGT
GTATCTCTGTTTTGGCATGCATTTATTCAGTATCTCTAGCAATGGTTTTTCTCTGTTGATCTACCGTAGTATCC
TATTTTTAAGTTTATTTTATTTTAAAGGAGTATTGTCATCACTTTTCAAGGTGCTTGACTTCTACACAAAGTAT
ATATATTCAGGACTTTAAAAAATAGCAGTACACATTTAACAGTAGCGAATTACACCAAAATGATTTACTTTGAGA
TTTGAATAATTTGCATAGCAGTAAATGTGTTTTGTGTAACATACAAATAGAAAAATGACCCAGTATCTTAATTG
ATACTTACTGGAGAGTATCAGAATTACCCAGCAGCTCTTACAGAATGCCATAAATCTTTAAGACTAAATATTGA
AATCAATTATTTGAAGTAATGTTTCTGATTTACTGTTAAAGTTGCTGAGCTCAGTTTTTGGAGATATCATTTAT
GCCTGCCTGTTCCCTTATGACAGTGAGGCCTTCTTTGGCTCCACCTAGTATGATAATCATGGGTTCTGTTTTAGT
TGATGAGAAGTGGCTCCTATGAATGCCTCTGCTCAATTTCTTTTTATTTTACTTTATTTTATTTTATTTTAGGGGTCTC
GCCAACTCCTGGGCTCGAGTGATTTCTCTGCTTCCACCTGCCCCACAGTGCTGGGGATTACAGGCATGAGCCAC
CACGCCTGGCTCTCTGTTCTTTTCAATGTCTCCGTGCCATCAGTCAGCAGTGCTTACATGTTTAGCATATTGTCA
TGCAGTTTCTCTTCTGTTCCACGAGATATTTTGGGCAAAAAATTGACAAAAGTACATGTGTTTTTCCCCACCT
ATCCCTTAGAAAACCTAATGTGTACTGCTATTTTTTAAACCAAAAAGAGACAGCGTGACGATGCGTAAAGCATT
TTCTTAGCCTTTTCTTTGTCTTGATCTGTTAATGAGAACAAAACCTGCCAGACTCAAAATACTCTACTATTGTGCT
GAAAGAAATACAATTTAGATTGCACAAAATTTGAAAATATAACTCAGCTGTCTTTTAAAGAGTTGTGTTGTTAT
CTACAAGACTATTAGCAGTCTTTTTTTCAGAGCAAATTTTAAACAGCTAGTTGTGAGTGGTTTTAAATATAGAAAAAT
TATTAAATCTTAGTTTGAGGGGTTTTATAGTGGGAGAAAAACAGGACCAAGTTTATGTGCCCTTCTTCAGTAG
TCTTAATTGACCTTTTCTTCTATTTGAGACTAAAGTAGTATCAGTATTCTGGTTTTTTCAGGAAATATGTACTATA
TAGTTTTTAAAGAATGTTGTCCCACCAACTATTTCATCCAAGCAAAGAATTGTAACATAAAATAAAGTCTCAGTTA
CACTTTTGCCTTTATCACATAATATTCAATTGTAGAGCATTGTGCAGGTCCAAGAATAGAGCTGCTCAAAATCTTT
GTGGTAGTTTTCTTTAGTTTTTGTAACTGAGGCATATGTTCCAGAGAACAGGGATATTTGTCTGGTCCAGTGACC
TTGGTGATCATAGTCATAATTGAAAGATGCCTATGGCATGCTTAAATCAGCATTGTCAACTGATTTGTTGTTGTA
TTATTTTCACTTCTTGGATCTATGTAGTAGTTGTAATAACAAATATTTAAATAGCTATTTTTTTGATGCCATTAA
AAAAATCATACTCTGGCCTTTTTTCCCCCTTACTGTTGTTTCCAGATCTTTTAAAAATTCATCCCATATCCAGA
AAGTACCAGTTATAAAGATTGCTGACCAAGCAAAGTTTTGCATCAAAGTGTACCTCATTGCTCTGACCAAGAC
TGACTGTTGTGGTTTTAACTCCTCTCTGTAAAGCATTTTGCATTTTCCCCAAGCTCCTTTCTGAAAGAAGAACCA
GTGCAGAGCGGCCCTTACTTTCAATTTCTACTGCTGAATAGACTACTTAGAGAAAATGTGAGTTTCAGTGTGAAC
AGAATGGATTAGGATGACGAGTTTGATGGGCATTTTCACTACTGTATCTAAGAAAAAATAAGCACAGCTAGG
AGCCTCTGACATTGTCTGGTGTTTTACGTGGTCTGTTTCATCAAATTTCCCTTTTTCAGTTTTTAAAGATGTTCTG
CTAACAGAAGAAAATGCTGTAAATATTTGTAACAACATTTTTTTTTTAAACAAGGCCAAAAAAGAAAAAAGTTTTT
GGGAACAAATGAACCTATAAAGTGGTTTTATATAAACATCAATTGTCTTGTATATTTTGATAAGCAGCAGTAC
CAGCTTTCAATTGTAAACAGTCTGTGGCATTGGAAAAAAGGAGTCTGTGATTGTTGAAGTGAATTATGTTATAAA
TGCAAAGAGAAGATAAAATATTAAAAACATATTTTCTAAATGCGTAGTGCATGGTTAATTCAAGCTTCTGTACA
CTACAGTATATTCCATTTTCGTTTCAGTTTGTATATTTGCTGACTATTACTTGATATCTCTAATCTCTTTTCCTAA
CAAATATAGCATTGTAGCATGCCTTTTAATAAATGTCATGACATCTGTACTCTCTTA

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FIGURE 1091

TLLPPRTGRGSAEPKLACPRNRPAAAACFLCSRLARQSLLCARLHLGHGWRGSDELLSSGIINGPFTMIVLLLLQ
VCMAFLEMASEEAAVTMVNYYTPITPHLRSQPVIYQYNSHRELKTDNLPNQARAQAALQAVSAVQSGSLALSGGP
SNEGTVLPGQSPVLRIIIENLFYPTLEVLHQIFSKFGTVLKIITFTKNNQFQALLQYADPVNAHYAKMALDQON
IYNACCTLRIDFSKLISLNVKYNNDKSRDFTRLDTFLLVMASHPLNPLIGCCFWGHRGIISSPYAGAAGFAPAIG
FPQATGLSVPAVPGALGPLTITSSAVTGRMAIPGASGIPGNSVLLVTNLNPDLTITPHGLFILFGVYGDVHRVKIM
FNKKENALVQMADANQAQLAMNHLSGQRLYGKVLRTLSKHQAVQLPREGQEDQGLTKDFSNSPLHREKFKPGSKN
FQNIFFPSATLHLSNIPPSVTVDLKNLFIAGCSVKAFKFFQDKRMALIQLGSVEEAIQALIELHNHDLGENH
HLRVSFSTI

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FIGURE 1092

ACGAACAGGCCAATAAGGAGGGAGCAGTGC GGGGTTTAAATCTGAGGCTAGGCTGGCTCTTCTCGGCGTGCTGCG
GCGGAACGGCTGTTGGTTTCTGCTGGTTGTAGGTCCTTGGCTGGTCGGGCCTCCGGTGTTCTGCTTCTCCCCGCT
GAGCTGCTGCCTGGTGAAGAGGAAGCCATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCTGAAAATAAG
GCGAAGATCAACATGGCAGGCGCAAAGCGCGTTCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGGCCA
AGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACCTGCAGGCCAAAATGCCTATGAAGAAGGAAGCA
AAACCTTCAGCTACTGGAAGATCATTGATAAAAACTACCAAACCTCTTGAAAAGGTACCTATGCTGGTGCCA
GTGCCAGTGTCTGAGCCAGTGCCAGAGCCAGAACCTGAGCCAGAACCTGAGCCTGTTAAAGAAGAAAACTTTCG
CCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAAACATCTGGATGTGCCCTGCAGAAGAAGAC
CTGTGTCAGGCTTTCTCTGATGTAATTCTTGCAAGTAAATGATGTGGATGCAGAAGATGGAGCTGATCCAAACCTT
TGTAAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAACCTTGAGGAAGAGCAAGCAGTCAGACCAAATAC
CTACTGGGTCGGGAAGTCACTGGAACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTC
AGGTTGTTGCAGGAGACCATGTACATGACTGTCTCCATTATTGATCGGTTTATGCAGAATAATTGTGTGCCCAAG
AAGATGCTGCAGCTGGTTGGTGTCACTGCCATGTTTATTGCAAGCAAATATGAAGAAATGTACCCCTCCAGAAATT
GGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCACCAAATCAGACAGATGGAAATGAAGATTCTAAGA
GCTTTAACTTTGGTCTGGGTCGGCTCTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGAT
GTCGAGCAACATACTTTGGCCAAATACCTGATGGAACATACTATGTTGGACTATGACATGGTGCACCTTCTCCT
TCTCAAATTGCAGCAGGAGCTTTTGTCTTAGCACTGAAAATTCTGGATAATGGTGAATGGACACCAACTCTACAA
CATTACCTGTCAATACTGAAGAATCTCTTCTTCCAGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTAAAT
CAAGGACTTACAAAGCACATGACTGTCAAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCA
CAGCTGAATTCTGCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAACTTGTAACCTTGAGTTGGAGT
ACTATATTTACAAATAAAATTGGCACCATGTGCCATCTGTAAAAA
AAA

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FIGURE 1093

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPR TALGDIGNKVSEQLQAKMPMKKEAKPSATGKVI
DKKLKPLEKVPMLVPVPVSEPVPEPEPEPEPEPEPVKEEKLSP EPI LVDTASPSMETSGCAPAEEDLCQAFSDVI
LAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAILIDWL VQVQMKFRLLQETMYM
TVSIIIDRFMQNNCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFG LGRP
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMDYDMVHFPPSQIAAGAFCLALKILDNGEWTP TLQHYLSYTEES
LLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNSALVQDLAKAVAKV

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FIGURE 1094

GGAAACATGCAGCATGTAGTAATTTATGACAGCTTCTTCACTTAGCATGAGGTTTTCAAAGTTCATTGATGTGG
TAGCATTGTGTCAGTACTCTGTGCCTTTTTATGGCTGAATAATATTTATCATATGGATTTACCACATTTTATCAT
TTTATTTATCCATCATCAGTTGATTGACATTTGAGTTGCTTCTACTTTTTGAGTATTATCAATAATCTGTTATG
AACATTCTTGTACAATTTTTTGGTAGACATTTATCTTCATATTTCTTGGATATATACCTAGGAGCAGAATTGCTG
CGTCAGATGGTAATGCTGTTTAACCTTTTCAGGAACTGTCAGACTGTTCTGAAGTGGGTACATTATTTTACATT
CAACCAGCAGTGTATGAGAATTCAGTTTCCCCACATCCTCATCAACAGTTGTTATTGTCTGTCTTTTTTATTAT
ATTCATCTGTAATGTGAAGTGTATCTCATTGTGGTTTTGATTTACATTTCCCTGATGGTTGATGATTTTCAAC
ATCTTTTCATATACTTATTAGTCATTATGTATCTTCTTTGGAGAATGTCTGTTTCAGATCCTTTACCTACTTTATA
ATTGGTTTTATCTTTTTAATATTGAACTGTAATAGTTTTTAAAAAATATATCCTAAATACAAGTCTCTTATCAGAT
AATATGATTTGCAGATATTTTCTGTCATTCTATGTACTGTCTTTTACATTCTTGATGATAGACTTTTCAGCCCA
AATGTTTTTAACCTTGATGGAATACAATTTATTTTTCTTTTGTGCTTGTGCTTTTCAGTCATATTTGTGAAAAC
TTGCTTATCCACATTACAAAGATTTACTATTTCTAAGTGATTTATAATTTTACCACCTACCTTTAGGTCTCTGA
TCCATTTTGAGTTAATTTTTATGTGCGAGGAGGGAGTCTAAGTTGATTCTTTTACATGTGGATATTTAGTTGTCC
CAGGACCATTTGTTGAATTAAGTGCCGAGCAACAAGTACATCTATATATAGAGAAAGTAGATTAGTGGTTGTCAGA
GACTGTAAGAAGTGGGGAATTGGAGAGTGACTGCCCATAGGTACAGGCATGCTTTTTGGCATTATGAAAATATTC
TGGAATTAGGTAGTGGTGATGGTTGCAGAACTTTTGGAATATGGTAAAAGACACTGAAATATATGCTTAAAAATG
GTGATTTTTGTGATATATGAATTATACTATAGAACTAATAATAACAGTAATAAAGCAAGGTGTCTTTCCACATCT
CCATGCCTTGTATTTTCATTAAAAAAAAAAAAAAAAAGCATTTCAGGGCCAGGCTCAGTGGTTTACTCTTGTA
TCCAGCACTTTTGGAGGCCTAGGTGGGAGGATCACTTGAGGCCAGAAGTTCAAACCAGCCTGAGCAACATAGC
AAGACCTTGTCTCCATGAAAAATAAAAAATTAGCCAGAAATGGTGATGTGTGCCTAGAGTTCCAACCTACTTGGAA
AGCTGAGGCAAGAGGATCGCTTGAGCCTAGGAGTTCAAGGTTGCAGTGATCTATAATCACCCTGCACTCCAGCC
TGGGTGACAGAACAAAGACCCTGTCTC

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FIGURE 1095A

GAAACATGTCATTAAGTTTCTTAAATGACGAAGAGGCCAGGAAGATCCTTCAGGTGCTGGAAAGGAATGAGGAGT
TACAGAGGGCCGAGAAGGACAGGATCAGCAAACCTTCAGAAGACAAAGAGGGATATCAGATGGCTTCAGGGAGTGA
CTGGTGAATGGTTTGAAGAAATTCAAAAGAAAAAGTTTTGCAATGAAACAGATGTTAGCCAAATGTTAAAAACAAC
CACTTACATACAGGCTAAGTAAGGAGATGGCAAAAAATGATCCGATAGAATTACCTACATCAAGATCTAAAAATG
TAACTAATCAAAAAAGCCGACACCTTTTTCTTCCCGGATGAGCTTCAGATCGTCATTTGCTTCCCTGTTCTCAT
TCAGGAAATCTGGAAAGGAGACTTCAAAGCTTCCATCACTGGGACAGAAAGGATGTGATGGCCATGCAGGACCTC
CTATGCCTGTGAGGGGAGCTGCTGTGCAGGCAAAAAATATACAATTCACCTCTGGAAAATCATCTAGTTGACAGTA
CATTTGTCCCAAAGCCAGCAGTCATGAGGGAGGAGAGTGGCATGCCTCCACCGTGGGATGCTTCACTGCTGGAGA
ATGAGTTTTTCCAAGTTTTAGATGACTTGGATAGCAAATTGGCTCAGGAACAGTCTGCAAGCTCAGTGAATACCA
GAACACCCCTCAACTATGGATCAAGAACACAGTTCGGTCACTTTTATTCCAGTGGTAACAGACATGGTAATATCA
CAGAAAGGCACAAAAACACTATAATGAACTTCCAATATGTCTATCTATGACATCCTAAGACCAGGAACTCCTA
GGGAAGGTTTTTAAACCTTTCTCCTAGGACAAGCACAATTTATGATATGTATAGGACAAGGGAGCCCAGAGTCT
TTAAAGAAGATTATGTGCAAAAGAATACTTTTGGCAGTACTTCGCTGTGTTTTGACAGCAGGCAACGGTCCGGCCT
TACCAGCCACAGGGCATTTCACAGCAAGAAGCTTACATTTTCCAGCCACAACCTCAGAGCAAGAGTGGGTTTATAC
CACCAAGGCACCAGCAGAGTCCAAAGAGAATCCTTTATCATCCATCATATGGAACAGATCAGATTCTCTTAGAG
ACAGGGGAGAACAGGAAGAGTTCTTGAGGGCACCATCACCAATGGAAATTGATCCCGCTGACAAGTATGTGTATC
CCAGGGGTTTTTCAGGAGAATAAGAGATATGAATCGTACCATTACAGAATGTTTACCAACGTGTTAGTTTAAATG
CTCCCATGGAGAATGCAATGAGTCCCGACACTTTTGAGAACTCAGAGAACATGCCATTCTACCATCAAAGCAACA
CATTTACCAGATCTTTCTTCAGCAATACCTTTGGACGAAGCGGAGAACAGAGGAGATTTGGACAAGGTCCCTTTTT
GGGGCCAAGAGAAAGGACATTCTTTCTGGTCTGACTTTTCATCGAAGCAGGAAATCATTCAGTTCTTCTGACAGAG
ACTTTGAAATGATTTCCATGGGAAGCAAATAGTGTATCAGCCATTTCATGGCCATAATGTTTCTTCTGAACTGGG
AATCATTTTCTTCTGGTTATGGAACAGATGTTTCCAGAGGCCAAGAAGAGCCACATCCTTGGCAGTTTGATTTTC
AGAGATCCACACTGGATAGCATGGTGGTATCACATGGTAATGAGACCCAGTTGACTCCTCATTTTGGCACACCAA
ATGTTTGTCTCCATGACTGGTTCAAGCTATCACGTCAAATCTAGTGAGTTGGTAAGTCAACAGGACAGTTCTCCTG
TAGAAGTACATATAAAACAAAGAGCTTCCTCATTTGGAATTGCTCAGACTCTAGCATCCTCATTCAAAACCTCCT
TTTCCAGATTTCTGATGACAGAAGGAATCCTCAGAGTCCCAACTTGCAGAATCCCACAGTCACTTTGCAGAAAA
TTTTTCCAAATAAGCCTGCCTCTCATCCAATGAGAAGCCATACAGAAGTCACTGTGACCAACAGCAATTCAGTTG
ACTCTCTGCCTCTTGCCAAAAGCCAGCCCAATATCTTGGTTCAGAGAAGTAAATAATGAGAAAGACTTAAATGAAT
CTATTTTCAAGAAGACAAACAGCTAAGCAAGATGGACCAGACAAACAAGGCAGGTGAAATACCCCAACCTGTTT
CACAGACAGGGATCTCAAACCTCTTACCTGATTTTCAAATCCCTTATCCAGGACTCAGCCAAGAGCAACGGGT
TTGGTTTTTAATGCATCTACCATAATAAGTTCAA AAAAGTCAACCAGAGTCTTTTCCAGGAAAGATACCTCCAAAA
TGTATATACCGCACACAGATAAATCCAATGACATTAAACAAGATAAGAGGTTTACTGAAAACAGAAAACCTGGCT
CAACAGCTTCCCTTCCCTTTCATTTCAGGAACACAGAACACCACCATCTTTCCCCAGGACAGACCAAGGTTGTCACC
AGGAATTAACGTGAAATAATGAAGATATTTCAAGAATTATTACAAATAACCACTGGAGCTCTGCACTGACTGATA
CTCAAATGCACAATACTCAAATGCAAGTTAACTCCTGGCCACAAGACCTCGTGTGATTCTTTAGATCTGTCAT
CAGCTGCACTACCAGATTCTCACCATCAAAGAATTCTTCCCTTGATGCTCCTGTGGTTCCATCTACTACAGTGT
TCTCCAGGAGAAGTCCCTCAGACAAAGATCCATCGCTAGGAGAAAGAGAAGAAAAAGACAATGCTGGGAAGAACC
AAAAGAATCAGTTTATTGTAAGCCACTCAGAAAACCAAGAGAGAAATGATAGTCTGTGCCTACACATGATGAAG
TGGTTGATGTCAAATGCCATTACACTCTCCTTTTAGGAATGAAAGAGGAAAAGGAAAAATAAGGCATCATATAT
CCTGTATTGAAAAGTTAAGCAAAACAGAAAGTATATCAGTACCCACCAGTGATCACAGGAGCCTCATTGAAGCAA
ATCAAAGCAATTCCAAAGTTTCTGAACTTGACACAATTTATTGTACCTTGCCAAGAAAATCAAGCAGTTTTCTCA
TACATGGCAGGCAGTCAGGAAGTAAATAATGGCTGCTTCATTGAGGAATGGGCCACCTCCCTTCCAAATCAAAA
ATAATGTGGAAGATGCAATGGGGAACCTATATGTTAAACAAATTTAGTCCAGTTCTCCTGAGTCAGCGAATGAAT
GTTCCAAAGTCTTTTCAGACTCAGCCCTGGAAGCACCTGAAGCCACAGAGAGAATGACAAATGTAAAAAGCAGTG
GATCTACTTCCGTTAGAAAAGGACCACTTCCATTCTCATCAACAGGGCTATGTCATGTCCCTCAGGGGAGCCAC
ATGCCTCAACTGGAAGAGAAGGAAGAAAAAGCCATTGACCTCAGGCATGGATGCTTCTGAGCTAACACCAAGGG
CTTGGGAGAGAATCATTAGCCCTGTGGAAAGTGACTCATCTGTTAGAGATTGTTCTTTAACCAAAAGACAACACC
AAAAGGAAAACCTTCCAAGAATACACTGAGAAAGAGGGTAAATGGCTGCCTCCAGGAGAAGTGATTTGCTCTTT

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FIGURE 1095B

CAAATGAAGACCCCTTTACCTTTTTGCTCAGACTTGTCTAGGAAAAGAACGTGGGAAAACATTACATAAAGTTAAGA
CGACTAGTACGTTTTCTGTTTCTGGTGATGAAGATAATGTAAAATGTCTGGAGGTGGTCTCAATATATTACACTC
TACCGAGGAAACCCAGCAAAAAATTCTGTAACCTCCTTCAACAGTATACACAAAATACTAATTTACTTATAGAAT
CACCTCAAGTGGAGACTGAAACATTTCTTAACGCTTTAGAAAAAGACAAACAGAATTATTCTACACGAGAGCAGT
CAGGAACACCTTCATGTGAAAAATCTAAAGATGTCCGTCAACTCTGATCAGACGCTCACCCTGAAAAATATGACTG
CCTTCCGATTATCAAATAGGGGGCCCCCTAGCTCCTACATTACAGGAAATGGCTTCTGTTGAGGCAGCTGTTTTCTC
TTCCTGAAGAGGAATCTAAAGCTAGAGAGATTTTTTTCAGATAATTTAGCTAAAACACCTCTAGGTGATTTCAGAAA
ACAAGAAGGAAAAGAGGCAAAAAAGTTGCAAAGTGAAACCCCTGCATACTTCATTGATGCTTCAGAGAAAAAATGTAT
CCGAAGAAAAATCTGAAAAATTGTCAACAATCCATTAATTCAAGTAACAGTGGTCCCTCTAGTCTTCCAGCTCTTT
CAGAAGTTAATATTGGAAAAATCCCAAACCTAGAAGAAGTTCTTGGGAGTGACAGGGAGTGGTAGAGCCATTCCAT
TTACTGGAAGTGGCAAGTGTCCTCCAGAAAGATCACACATCCACAGCTGTAGGTGATGGCTCCAGTGGATCACAGC
CTAGGGAAGGCAGAGGGGACATTGGAACCAACTGCCAAAAATGACTAATAAAACACTTTCTCACTCAGAGAGTC
AAGTCTTTGCCCTTACTCCAGCATTGCATAAACTACAGCTTGGTGAGGAGACTCAGTCAGATGAACCAAACCTTAG
AGAGTCTGCAGTCTGAACCAAGAGAATTACCTCAAAGAAGTCAGGAGGCAAATATGACAGAGAGCAGGAAGGCTG
AAGATGAAATGCAGAAGTCAGCTTGGGATCAACCTTCACTTCTTGAAGGAAACAAAAATAAAACCAACTTGGATG
ACCTAGTAAAGGGGGAAAAATAGATCTTCAGTTAAACACAGATTGGCAGCCATGTCTAAAGCCAGCAGAAAATTCC
CAGCTAAAGATGTAAGCCCCAGAAGACATGTAGCTACTATCTTCCCCCAAAGTGGAAGCAGATCTGGCTTTGACC
ATTTATCTCTTGGCACAGTGGAGTGCAACCCACTGTTCCCTGAGCCTACTCCAAAATCTGCAGAGTCCATTGGCG
AAAGCAGGTTGAGTGAGAACAGAAAGCATGTGAAGAAATCCGAGAACCTTCTCCCCATTACTGTACTACCCAACA
GAGAACCTTCTACACACGTCAGCAACCAGAAGTCTAACAGCATTTACACAACGACATCAGAATGAGTTTAAAAACG
TCTCAGAATCACCATCAAAGCATGAGAATTCTAAAGACGTCACAGCAGCTCAGAATTTAGTAAGAGAATCAGGAG
CCCCATCACCCATCACATTCACCAGCCTCAGGGAAGCAGAATTCTCTGACAATCAGAGGAGGCTGAGCCCTCCTT
TTCCACTGGAGCCTGCACAGAAATCTAGAGTAAGCAGTCCACTGGCCAGTTTTCTGCAGCAACAAAGGAGTGCTT
CATCTCTGGAGTGGGAACCTGAGCCACACCTCTATCGTTCAAAGAGTTTAAAAAGCATTAAATGTTTCATGGCGATC
TACTACGAAAAAGCCATCCTCCAAAAGTCAGGGAGCGCCATTTTTCTGAAAGCACTTCTATTGACAATGCCCTGA
GTGCACTGACCCTTGGGAATGAATTCTCTGTCAACAATGGGTACAGTGAAGATTTCAGATCTTTTTCTGAACTCC
CCTCTGTGATGGAAATGAAAGTTGGGCTTATCGCAGCGGGACAAAAACAGGTCCCAGGTCTGCAATATCTATAT
ACAGACCTATCGACTATGGGATCTTTGGGAAAGAACAACAGTTAGCTTTCTTAGAAAAATGTAAAGAGGTCACTTA
CACAAGGAAGATTATGGAAACCAAGTTTTCTTAAGAACCCTGGCTTCTTAAAAGATGATTTGAGGAACCCCTCCCA
ACCCCTCAGAGTCATTAAGCTCAAATTCTCCAGTAGTCAGGTGCCAGAAGATGGCTTATCTCCAAGTGAACCGC
TTAATATCTATGAGGATGACCCAGTGGACTCAGATTGTGACACAGACACAACCACAGATGATGAATACTACCTGG
ATGAAAAATGACAAAGAGTCAGAACTGTGAGGCTTTTTTCAATAAAATGCTTTACTTTTTTACCCTAAAGCTTATAA
TGGAACCTAAGGTGTACATGTGCATGTGCATGGAAGGATAAAAGATCTAGTCTGGGCAGTGTCTGCTCTGAAATGT
CCCACATCTCCTTTTTTTTTCTCCACACCCTATATAGACACTTCCTGAATGCTAGAACAATGAATTCTTGTTTTG
AGAGAGTCTCTGCTATTTTCTATCTCTGTAAATGTTCTTAGCCTGCCTTTCCACCCTCCCACTTAATCCCTGAT
TCACTGTCTGATTGGGCTTTCTGCTTTACTTCCCTCCTAACATTTTTTCATCTTTAATTGTGATTTACAACCCTA
ATATCCCAGGCACATACAAACTTATGAATTACCCAGCACAACTGTGAAACTCTGTATTGCTTCTTCCGGTCCAC
ACCTTATACTCATGACATTAAATAAAAGGTAGGGATGATAACAGTGGGGTAAATATTATCATCCTGTTTGACTCA
TGAACATTTAGGAAGTTTAAGGTGGTGATCTTCTCTTTCAAACAAAGATAAAGGAATTTATTTTTTAACCTGAGA
AACTGATTGCAAAAAGG

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FIGURE 1096

GACAGACCTAATGCTCTATTAAGTTCACCTGCAACAGAAACAGTTCATCATTCCCCTGCATATTCTTTTCCTGCT
GCTATCCAGAGAAATCAGCCTCAGCGCCCTGAAAGCTTCCTTTTCCGAGCAGGTGTCAGGGCAGAAACCAACAAA
GGTCATGCTTCACCCCTTCCTCCATCTGCTGCACCTACCACTGATTCTACAGATTCCATAACAGGACAGAATTCA
AGACAGAGAGAAGAAGAGCTGGAATTAATAGACCAACTGCGTAAACATATTGAGTACCGGTTGAAAGTGTCTCTA
CCTTGATCTCGGAGCAGCTCTAACTGACGGTGTGTTCTTTGCCATTTGGCCAATCATGTGCGACCTCGATCT
GTCCCAAGCATTATGTTCCCTCACCAGCTGTACCTAAATTAACAATGGCGAAATGCAGGCGAAATGTGGAAAAT
TTCCTAGAAGCTTGCAGAAAAATTGGTGTACCTCAGGAGCAATTATGTTTGCCTCTCCACATTTTAGAAGAGAAA
GGTTTGAGCCAGGTTGCAGTGACGGTCCAGGCTCTCCTGGAACCTGCCCCACCCAAGCAACAGCAGCACCAGTTA
TCTGCTGTTTGAGGATCCCCAGGACGGTGGGCACTGGCCTGGCCAAAACAAGGAACAGGACACCGTGATTGCTGC
TGCCAGCTGTCTGCTTAAACAAAGCTCTTGTGTGTTCTCAGAAGGGACCGTTCCCATGATTCCCTAACAGGAATAT
TTTGCTTCATTTCTCCATTTTAGGGGAGGTTATTTCCATTTCCATTGAATTTTTTTACGAAGACACCATTGTTTT
TCTCAGATGAACTTCTCTTACTGAAAACCCAGCACCTAACTTGGCTGTGTTTTCTGGAGAGCAGGCGTGTTC
ACGTGCCAGAAAGCACATCTTCTGTGTTAGGCACAAGCATGCTGTGCCATTGTTTTTACCTGGTCTCAAGACAAC
TGGTCTGCTGGTTTCTAAACTTGGTTGTTTATTAGACTCTCCTGGAGTATTTGTTAAAATACAGATTCACATTCA
GTAGAGCTGGGGTAAGGCCTAGGAATCTGCATTTTCAACAACCATTCACATGTTTTTGTGTTTGTGGAGAATT
GCTTGAACCCAGGAGGCGGAGGTTGTGGTGAGCCGAGATCGTGCCATTGCACCCAGCCTGGGCAACAAAAGCGA
AATTCCATCTCAAAAAAAGAAAACGCGCCCATCTCGCTCCACCACAAGCGCCTTTATATACTCAATGATGGGTG
GAGGAAAAGGGCCCAAGGGCTCACACCGCACAGGAGCCTTTACTCAAGTTTCAGCTAGTTTTCTTCCCCTGCAT
TTTGAATCCTTTTAGTTGTTGGTGATATCCTTTGGTGTTCACCTGCCTTTGTAAAACAAGTAAATAAGTAAGCG
GAAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1097

GGCCTCAtGTTGCGCCGCTGCGCAAGGGCAACCTGCCCATCCGCTCCATCATCCCCAACCACGCCGACAAGGAG
CGCTTCGCCACGCGCTGCAAGGCGGCCACCGTGCTGCTCTACGACGAGGCCACGGCCGAGTGGCAGCCCGAGCCC
GGCGCTCCCGCTCCGTGCTCGGCCTGCTCCTACAGAAGCTGCGCGACGACGGCTGCCAGGCCTACTACCTCCAA
GGTGGTTTCAACAAGTTTCAAACAGAGTACTCTGAGCACTGCGAGACCAACGTGGACAGCTCTTCTCGCCGAGC
AGCTCGCCACCCACCTCAGTGCTGGGCCTGGGGGGCCTGCGCATCAGCTCTGACTGCTCCGACGGCGAGTCGGAC
CGAGAGCTGCCCAGCAGTGCCACCGAGTCAGACGGCAGCCCTGTGCCATCCAGCCAACCAGCCTTCCCTGTCCAG
ATCCTGCCCTACCTCTACCTCGGCTGCGCCAAGGACTCCACCAACCTGGACGTGCTCGGCAAGTATGGCATCAAG
TATATCCTCAATGTACACCCAACCTACCCAACGCCTTCGAGCACGGCGGCGAGTTACCTACAAGCAGATCCCC
ATCTCTGACCACTGGAGCCAGAACCTCTCCCAAGTTCTTCCCTGAGGCCATCAGCTTCATTGACGAAGCCCGCTCC
AAGAAGTGTGGTGTCTTGGTGCACTGCCTGGCAGGCATCAGCCGCTCAGTGACGGTCACTGTGGCCTATCTGATG
CAGAAGATGAACCTGTCACTCAACGACGCCTACGACTTTGTCAAGAGGAAAAAGTCCAACATCTCGCCCAACTTC
AACTTCATGGGGCAGCTGCTGGACTTTGAGCGGACGCTGGGGCTAAGCAGCCCGTGCGACAACCACGCGTCGAGT
GAGCAGCTCTACTTTTCCACGCCCACCAACCACAACCTGTTCCCACTCAATACGCTGGAGTCCACGTGAGGCCTG
GTGCACGGGGGGCATGGCACCAGGCCCTGCTCGGCGCGCCACAGGGCTAGGTGGGAGAGCCCAAGCCCGCCACCT
CTGGCCTGAGGAACCCCAAGATGTCACCTGTGCCCAGAGGCCAGGCTGATCGGTGTGCGAGACGCCCTCÀCCA
TCCTTGGGGCAGGGCCCAGCAGGCAAGGTCTCCCACTGCAGGGCTTGCTGGAGAGGCCTCGGCTCTTGACACGT
GGCTTTGGGCGTCCACCAGGGCCTCATCCTGTCCAGGACGCTCCTTTCTGCTGACAGCCCAGCCAGTTTGGCTGT
TTTTTAAAGACACATCCACGGACCTGAGTTTACTTTTTACTTTTTGGCAGGTAAATCCAAGCTCCCTGGAGCACA
AGAGTGTTTGAGCTCTTCTTGATTTTTCTTTTTTTTTTTTTTTTTTTTAAACAAAAGTGTTATTTTCAGGCTACAT
GCAACAGTGGATTGTATAACCCAGTATTTTCATCCCTTTCCTGATCC

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FIGURE 1098

GLMLRRLRKGNLP IRSIIPNHADKERFATRCKAATVLLYDEATAEWQPEPGAPASVLG LLLQKL RDDGCQAYYLQ
GGFNKFQTEYSEHCETNVDSSSSPSSSPPTSVLGLGGLRISSDCSDGESDRELPS SATESDGSPVPSSQPAFPVQ
ILPYLYLGCAKDSTNLDVLGKYGIKYILNVTPNLPNAFEHGGEFTYKQIPISDHWSQNL SQFFPEAISFIDEARS
KKCGVLVHCLAGISR SVTVTVAYLMQKMNL SLNDAYDFV KRKKSNI SPNFNFMGQLLDFERTLGLSSPCDNHASS
EQLYFSTPTNHNLFPLNTLEST

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FIGURE 1099A

GAGGGAACGAGCAAGGGAAGGAAAGCGGGGAAAGGAGGAAGGAAACGAACGAGGGGGAGGGAGGTCCCTGTTTTG
GAGGAGCTAGGAGCGTTGCCGGCCCTGAAGTGGAGCGAGAGGGAGGTGCTTCGCCGTTTCTCCTGCCAGGGGAG
GTCCCGGCTTCCCGTGGAGGCTCCGGACCAAGCCCTTCAGCTTCTCCCTCCGGATCGATGTGCTGCTGTTAACCC
CGTGAGGAGGCGGCGGCGGCGGCAGCGGCAGCGGAAGATGGTGTGCTGAGAGTGTTAATTCTGCTCCTCTCCTG
GGCGGCGGGGATGGGAGGTGAGTATGGGAATCCTTTAAATAAATATATCAGACATTATGAAGGATTATCTTACAA
TGTGGATTTCATTACACCAAAAAACACCAGCGTGCCAAAAGAGCAGTCTCACATGAAGACCAATTTTTACGTCTAGA
TTTTCCATGCCCATGGAAGACATTTCAACCTACGAATGAAGAGGGACACTTCCCTTTTCAGTGATGAATTTAAAGT
AGAAACATCAAATAAAGTACTTTGATTATGATACCTCTCATATTTACTGACATATTTATGGTGAAGAAGGAAG
TTTTAGCCATGGGTCTGTTATTGATGGAAGATTTGAAGGATTCATCCAGACTCGTGGTGGCACATTTTATGTTGA
GCCAGCAGAGAGATATATTAAAGACCGAACTCTGCCATTTCACTCTGTCATTTATCATGAAGATGATATTAATA
TCCCCATAAATACGGTCCCTCAGGGGGGCTGTGCAGATCATTAGTATTTGAAAGAATGAGGAAATACCAGATGAC
TGGTGTAGAGGAAGTAACACAGATACCTCAAGAAGAATGCTGCTAATGGTCCAGAACTTCTGAGGAAAAAACG
TACAACCTCAGCTGAAAAAAATACTTGTGAGCTTTTATATTAGACTGATCATTGTTCTTTAAATATTACGGAAC
ACGAGAAGCTGTGATTGCCAGATATCCAGTCATGTTAAAGCGATTGATACAATTTACCAGACCACAGACTTCTC
CGGAATCCGTAACATCAGTTTCATGGTGAAACGCATAAGAATCAATACAACCTGCTGATGAGAAGGACCCTACAAA
TCCTTTCCGTTTCCCAAATATTGGTGTGGAGAAGTTTCTGGAATTGAATCTGAGCAGAATCATGATGACTACTG
TTTGGCCTATGTCTTCACAGACCGAGATTTTGATGATGGCGTACTTGGTCTGGCTTGGGTGGAGCACCTTCAGG
AAGCTCTGGAGGAATATGTGAAAAAAGTAACTCTATTAGATGGTAAGAAGAAGTCCTTAAACACTGGAATTAT
TACTGTTTCAAGTATGGGTCTCATGTACCTCCCAAAGTCTCTCACATTACTTTTGCTCACGAAGTTGGACATAA
CTTTGGATCCCCACATGATTCTGGAACAGAGTGCACACCAGGAGAATCTAAGAATTTGGGTCAAAAAAGAAAATGG
CAATTACATCATGTATGCAAGAGCAACATCTGGGGACAACTTAACAACAATAAATTCTCACTCTGTAGTATTAG
AAATATAAGCCAAGTTCTTGAGAAGAAGAGAAACAACCTGTTTTGTTGAATCTGGCCAACCTATTTGTGGAAATGG
AATGGTAGAACAAGGTGAAGAATGTGATTGTGGCTATAGTGACCAGTGTAAAGATGAATGCTGCTTCGATGCAAA
TCAACCAGAGGGAAGAAAATGCAAACTGAAACCTGGGAAACAGTGCAGTCCAAGTCAAGGTCCCTTGTGTACAGC
ACAGTGTGCATTCAAGTCAAGTCTGAGAAGTGTGCGGATGATTAGACTGTGCAAGGGAAGGAATATGTAATGG
CTTCACAGCTCTCTGCCCAGCATCTGACCCTAAACCAAACCTTCACAGACTGTAATAGGCATACACAAGTGTGCAT
TAATGGGCAATGTGCAGGTTCTATCTGTGAGAAATATGGCTTAGAGGAGTGTACGTGTGCCAGTTCTGATGGCAA
AGATGATAAAGAATTATGCCATGTATGCTGTATGAAGAAAATGGACCCATCAACTTGTGCCAGTACAGGGTCTGT
GCAGTGGAGTAGGCACTTCAGTGGTCAACCATCACCTGCAACCTGGATCCCTTGTCAACGATTTTAGAGGTTA
CTGTGATGTTTTATGCGGTGCAGATTAGTAGATGCTGATGGTCCCTCTAGCTAGGCTTAAAAAAGCAATTTTTAG
TCCAGAGCTCTATGAAAACATTGCTGAATGGATTGTGGCTCATTTGGTGGGCAGTATTACTTATGGGAATTGCTCT
GATCATGCTAATGGCTGGATTTATTAAGATATGCAGTGTTCATACTCCAAGTAGTAATCCAAAGTTGCCTCCTCC
TAAACCACTTCAGGCACTTTAAAGAGGAGGAGACCTCCACAGCCCATTAGCAACCCAGCGTCAGCGGCCCCG
AGAGAGTTATCAAATGGGACACATGAGACGCTAACTGCAGCTTTTGCCTTGGTTCTTCTAGTGCCTACAATGGG
AAAACCTTCACTCCAAAGAGAAAACCTATTAAGTCATCATCTCCAACTAAACCCCTACAAGTAACAGTTGAAGAAA
AAATGGCAAGAGATCATATCCTCAGACCAGGTGGAATTACTTAAATTTTAAAGCCTGAAAATTTCAATTTGGGGG
TGGGAGGTGGAAAAGGAACCAATTTTCTTATGAACAGATATTTTAACTTAATGGCACAAAGTCTTAGAATATT
ATTATGTGCCCCGTGTTCCCTGTCTTCGTTGCTGCATTTTCTTCACTTGCAGGCAAACTTGGCTCTCAATAAAC
TTTTACCACAAATTGAAATAAATATATTTTTTTCAACTGCCAATCAAGGCTAGGAGGCTCGACCACCTCAACATT
GGAGACATCACTTGCCAATGTACATACCTTGTTATATGCAGACATGATTTCTTACGTACACTGTACTTCTGTGT
GCAATTGTAAACAGAAATTGCAATATGGATGTTTCTTTGTATTATAAAATTTTTCCGCTCTTAATTAATAATTAC
TGTTTTAATTGACATACTCAGGATAACAGAGAATGGTGGTATTAGTGGTCCAGGATTCTGTAATGCTTTACACAG
GCAGTTTTGAAATGAAAATCAATTTACCTTTCTGTTACGATGGAGTTGGTTTTGATACTCATTTTTTCTTTATCA
CATGGCTGCTACGGGCACAAGTACTATACTGAAGAACACAGTTAAGTGTGTGCAAACTGGACATAGCAGCACA
TACTACTTCAGAGTTTCATGATGTAGATGTCTGGTTTCTGCTTACGCTTTTTAACTTTCTAATTCAATTCCATTT
TTCAATTAATAGGTGAAATTTTATTCATGCTTTGATAGAAATTATGTCAATGAAATGATTCTTTTTATTGTAGC
CTACTTATTTGTGTTTTTTCATATATCTGAAATATGCTAATTATGTTTTCTGTCTGATATGGAAAAGAAAAGCTGT
GTCTTTATCAAAATATTTAAACGGTTTTTTTCAGCATATCATCACTGATCATTGGTAACCACTAAAGATGAGTAAT

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FIGURE 1100

MVLLRVLILLLSWAAGMGQYGNPLNKYIRHYEGLSYNVDSLHQKHQRAKRAVSHEDQFLRLDFHAHGRHFNLRM
KRDTSLFSDEFKVETSNKVLDYDTSHIYTGHIYGEESFSHGVIDGRFEGFIQTRGGTFYVEPAERYIKDRTL
FHSVIYHEDDINYPHKYGPQGGCADHSVFERMRYQMTGVVEVTQIPQEEHAANGPELLRKKRTTSAEKNTCQLY
IQTDHLFFKYYGTREAVIAQISSHVKAIDTIYQTDFSGIRNISFMVKRIRINTTADEKDPNPFRRPNIGVEKF
LELNSEQNHDDYCLAYVFTDRDFDDGVLGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNTGIITVQNYGSHVPPK
VSHITFAHEVGHNFSGPHDSGTECTPGESKNLGQKENGNYIMYARATSGDKLNNNKFSLCSIRNISQVLEKKRNN
CFVESGQPICGNGMVEQGEECDGYSQCKDECCFDANQPEGRKCKLKPGKQCSPSQGPCCTAQCAFKSKSEKCR
DDSDCAREGICNGFTALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKYGLEECTCASSDGKDDKELCHVCCMK
KMDPSTCASTGSGVQWSRHFSGRTITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKKAIFSPELYENIAEWIV
AHWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTLKRRRPPQFIQQPQRQRPRESYQMGHMRR

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FIGURE 1101

TTTCATCACTTAAAAGAACCATGTCTATTAAAGAATCTAGCTCACTGGAGTGCATTGCCATTCCAAAAAAGAAGA
TGAATTTAAAAGATAAAAGCCATGAAGGTGTTGCTTGTGTCCAGAAAGAAAAATCAGTAGTTAAAACCTGGTTCT
GTGAATGCAATCAGCGATTCCCAAGTGAAGATGCAGTAGAAAAGCATGTTTTCTCAGCAAACACAATGGGTTATA
AATGTGTGGTCTGTGGAAAGGTATGTGATGATTGAGGGTCATTTCGTTTACACATGAGCCGGATTACGGAGGGG
CACATTTAAATAACTTTCTTTTCTGGTGTCCGACATGCAAAAAGGAGTTAACAAGGAAAGATACTATCATGGCAC
ATGTGACTGAATTTTATAATGGACACAGATATTTTTATGAGATGGATGAGGTAGAAGGTGAAACTTTGCCATCAT
CCTCTACAACATTGGATAATTTGACTGCTAACAAGCCTTCATCAGCTATTACTGTTATTGATCATTCCCCGGCAA
ATAGTTCTCCGAGGGGTAAATGGCAATGCCGGATTGTGGAAGATATGTTTGATTCCAGGAATATGTAAACAGC
ACTGCATGTCTTTGGCAAGCCACAAGTTTCATAGATACAGCTGTGCTCACTGCAGAAAGCCTTTTCATAAGATAG
AAACATTGTACCGACATTGCCAAGATGAGCATGACAATGAGATAAAGATTAAATACTTCTGTGGGCTTTGTGATC
TTATCTTTAATGTGGAAGAAGCATTTCAGATCATTATGAGGAGCACCACAGCATAGATTATGTATTTGTGTCAG
AAAAAAGTAACTTCAATTAAAAACCGAAGATGATTTTCCAGTAATAGAGACCAGTAACCAGTTAACTTGTGGTT
GCCGTGAGAGTTACATCTGTAAAGTCAACAGAAAAGAAGATTATAGCAGATGTCTCCAAATCATGCTGGATAAAG
GAAAACTGTGGTTTTGCTGTCAGTTTATGTTCCGGCAACAGCACAGAATTTAACCGACATGAACACTCATATCCATC
AAGTGCACAAAGAAAAGAGTGATGAGGAGGAGCAGCAGTATGTAATCAAGTGTGGCACCTGCACCAAAGCATTTC
ATGATCCTGAGAGTGCACAGCAGCATTTCATAGAAAACATTGCTTCTTACAGAAACCCAGTGTGGCTCATTTTG
GATCTGAAAAATCAAACCTGTACAAGTTTACTGCTAGTGCCTCACATACAGAGAGAAAACTGAAACAGGCAATAA
ACTATTCAAAAAGTTTAGACATGGAGAAAGGAGTTGAGAATGACCTAAGCTATCAGAATATAGAGGAAGAAATTG
TTGAGCTTCCAGATTGGATTACCTGCGAACCATGACTCATATAGTCTTTGTAGATTTTGATAACTGGTCAAACCT
TTTTTGGTCATCTACCAGGGCATCTAAACCAAGGAACATTTATTTGGGGCTTTCAAGGTACGGTTAATAAGAAAA
ACAAAAGAAAACTTTTTCCACCTCTTAGAATATAGTCAGTTTAAAAGGCTCCTCTTAAACCTTCTTGATAGAA
CATAGGAACATAATTGGAATATTGTTCTTTTGTATTATAGTTACTCTGCTAGAATCGTTTTCTTTACATGCCTCT
GTGGTAAATGTTAGCTCTATCTGGTGAATCAAAGTTTATGGATCTTTTGGCCGGGCGCGGTGGCTCACGTCTGTA
ATCCCAGAACTTTGGAAGGCTGAGGCGGACGGATCACGAGGTCAGAAGATCGAGACCATCCTGGCTAACATGGTG
AAACCCCGTCTCTACTAAAAAGAAAAAAAAAATACAAAAAATTAGCTGGGCGTGGTGGCGGGCCCCCTGTAGTCCC
AGCTCCTTGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCAGGAGGCGAAGCTTGCAGTGAGCTGAGATCGCACC
ACTGCTCTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTT

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FIGURE 1102A

[illegible]

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FIGURE 1102B

CTGAATATTGACAATCAGTATGCATCATGAAGCTACATGGCTAACATTGAGTACTCACTGTGTGTGCCAGGCCCT
GGGTTCAATGCTCTACATGCACTTATATTTCAATTAATTCTCTCTGCAACCTGAGATGGTATAGCCACTTCATTT
TACAGAGTTGAAACTGAGGCCCAGAGACTGAAAGTTAAGCCTGAGGTTACAGTCAATAAGAGGCAGAGCTGGAAC
TGAAACCTACGTGTGTCTGACCACCAGTTCATGTTCTGACGGCAGGCTAGTCTGCATCACAGAGTGTGGGGTAGA
TGGTGCATGCCTGCTAGGATGGGCTAGGTATCACTGTAGGTAAGAAACAGCCCCAAACGATGGAAATGTACACCA
CTGAAGGCTCTTTTCTTGCCCATGCTGCACATCCTCCATGGCTCTCCTGTGCCCTGTGCCCCACATGCCCTCATC
CTGCCACGAGAATAAAGGAGCAGCCTCCATATGGGAGCTGTCAGCTGCTCTAAGAGATGAAGGAGAGGGTGGCCA
GTCTCAATGGCTCCCAACTCTTGCCCTCGAGGTGACACACTTCACTTCCAC

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FIGURE 1103

LVLAMSDGAQPFVTCLYKYNFSKYLA

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FIGURE 1104A

TGAGATCGTGTTCATTTTCAGGAAGATATATGCGTCAGGAAAATTTCTATCTTCTTTTGTATTATCAAGGAGATA
TTTGGAGCAGAGTCAACCCTCTCAGTTACATAAAAATAAAAAATGGCATATTCTTGGCAAACGGATCCAAATCCTA
ATGAATCACACGAAAAGCAGTATGAACACCAAGAATTTCTCTTTGTAAATCAACCCATTCTTCTAGCCAAAGTCA
GTCTGGGTTTTGTATCAGATAGTAGATGAGATCAGTGGCAAAATTCACACTACGAGAGTGAAATTGATGAAAACA
CCTTTTTTGTGCCACTGCACCAAAATGGGACTCAACAGGGCATTTCATTAAATGAAGCACACCAAAATATCCTTGA
ATGAATTCACTTCTAAAAGCCGTGAACTCTCCTGGCATCAAGTTAGCAAAGCACCAGCAATTGGTTTTAGTCCTT
CTGTGTTACCAAAACCTCAAAATACGAATAAAGAAIGCTCCTGGGGAAGCCCATAGGAAAACATCATGGTGCTG
ATGATTCCAGATTAGTATTTTAGCTCCATCATTACAAAGTTTGGATAAAATTAATCTAGAGAAAGAATTAGAAA
ATGAAAATCATAACTACCATATAGGATTTGAAAGTAGCATTCCCTCCAACAAATTCATCCTTCTCAAGTGACTTCA
TGCCGAAAGAAGAGAATAAAAGGAGTGGACATGTGAACATTGTGGAACCATCTTTGATGCTTTTGAAAGGCTCTC
TTCAACCCGGAATGTGGGAAAAGTACATGGCAGAAGAATATAGAGTCAATAGGTTGTTCCATTAGCTAGTGGAAG
TACCTCAAAGCAGCAATACGAGTCTGGCCTCTTTTTGCAACAAAGTAAAAAAATCAGAGAAAGATATCATGCAG
CTGATGTTAATTTCAATTCTGGGAAGATCTGGAGCACTACTACAGCATTTCGGTATCAGCTCTTTTCTAAGACCA
AGTTTAATATACATATTTTTATTGATAACTCAACACAACCTCTTCATTTTATGCCATGTGCTAATTATCTTGTC
AAGATCTAATTGCAGAAATTTGCAATTTTGCACAAATGACCAGCTACTCCCCAAAGATCATATTCTAAGTGTAT
GTGGCTCTGAAGAATTTTACAAAACGACCACTGTTTGGGGAGCCACAAAATGTTTCAAAAAGATAAATCTGTTA
TTCAGCTCCACCTGCAGAAAAGTAGGGAAGCTCCAGGAAAGCTATCTCGAAAGCATGAAGAGGACCACAGTCAGT
TTTATCTGAATCAACTTCTAGAATTTATGCATATTTGGAAAGTATCCAGACAATGTCTCTTAACACTCATCAGAA
AATATGACTTCCACCTGAAATACCTATTGAAAACCCAGGAAAACGTGTATAATATTATTGAAGAAGTTAAAAAAA
TATGCAGTGTCTAGGGTGTGTGGAACCAACAAATTACAGATGCAGTAAATGAACTAAGTCTAATTCTTCAGA
GAAAAGGAGAGAATTTTATCAAAGTTCAGAGACTTCAGCAAAAGGCTTGATAGAGAAGGTAACAACTGAACTAT
CCACATCCATCTACCAGCTAATCAATGTCTACTGTAACAGCTTTTATGCAGATTTTCAGCCTGTAAATGTACCTA
GATGCACTTCCATCTAATAATCCCGGGCTTCCCTCCACCTCAGCTTCACAGTGTATGCAGCACACAACATTCCAG
AAACCTGGGTGCACAGGATCAATTTCCCTTGAAATAAAGTCACTTCCAAGGGAATCCATGCTCACTGTAAAC
TGTTTGGGATTGCCTGTGCAACCAACAATGCAAATTTACTGGCGTGGACTTGTCTTCCACTGTTTCCAAAAGAAA
AATCCATTCTCGGGTCTATGCTGTTTACAGATGACATTACAGAGTGAGCCTCCCGTAGAAATGATAACTCCAGGAG
TGTGGGATGTAAGTCAGCCATCCCCGGTGACCTGCAGATTGATTTTCCAGCTACTGGGTGGGAGTATATGAAAC
CTGATTCTGAAGAGAATAGAAGTAATCTTGAAGAGCCACTAAAGGAGTGTATAAAACATATTGCCAGACTTTTAC
AGAAACAGACTCCCTACTACTCTCTGAAGAAAAGAAAAGATATTTATGGTTTTATCGCTTCTACTGCAATAATG
AAAAGTGTCTCCCTTCTTTAGTCTTGGGTAGTGCCCTGGATGGGATGAAAGGACTGTTTCAGAAAATGCATACCA
TTTTGAGAAGATGGACATTTTCTCAACCTTTAGAGGCTCTTGGGCTTTTGAAGTTTCCAGTTTTCAGATCAAGAAA
TTCGTAAAGTGGCAGTTCAACAATTAGACAACCTCTTGAATGATGAACTACTGGAATATCTCCACAGCTAGTTC
AGGCTGTCAAGTTTGAATGGAACCTTGAGAGTCTTTAGTGCAACTTCTACTCCACCGCTCCTTGCAGAGCATCC
AGGTTGCCATCGTCTTTACTGGCTGCTAAAAATGCAGAAAATGAAGCTTATTTTAAAGCTGGTATCAGAAGC
TACTAGCTGCTCTCCAATTCTGTGCAGGTAAAGCCTTGAATGATGAGTTTTCCAAGGAGCAGAACTTATCAAAA
TTCTGGGAGATATTGGGGAAAAGTCAAGTCTGCCAGTGACCATCAAAGACAGGAGGTACTGAAGAAAAGAAATTG
GCAGACTAGAAGAGTTCTTTCAAGATGTAAATACTTGTCTCTTCTCTGAACCTGCCCCATGTATAAAAGGGA
TTGATCACGATGCATGTTTATATTTTACATCTAATGCTTTGCCATTGAAGATTACTTTTCAATGCTAATCTGA
TGGGCAAAAACATCAGCATTATTTTAAAGGCTGGAGATGATCTTCGTCAGGATATGCTTGTCTGCAGCTTATTC
AAGTGATGGACAATATTTGGCTGCAGGAAGGCTTGGATATGCAAATGATCATTATATAGATGTCTATCCACAGGAA
AAGACCAACGATTGGTGCAGATGGTACCTGATGCTGTGACCCTAGCAAAGATTTCATCGCCATTCTGGACTGATAG
GACCATTTGAAAGAAAATACCATTTAAAAGTGGTTTCAGTCAGCACAAACCTTAAAGGCAGATTATGAAAAGGCCT
TGAGGAACCTTTTCTACTCCTGTGCTGGCTGGTGTGTGGTAACATTTCATCCTGGGAGTATGTGACCGTCACAATG
ATAATATCATGCTGACAAAGTCGGGCCACATGTTTCATATTGACTTTGGAAAATTCTTAGGTCATGCACAAACAT
TTGGAGGGATAAAAAGGACCGAGCTCCTTTTCAATTTTACTTCAGAGATGGAATACTTTATTACAGAGGGTGGGA
AAAACCCACAGCATTTTCAAGATTTTGTGGAACCTTGTGCTGCTGTGCTTATAATATTATCAGAAAACAGCCAAC
TGCTCTTGAACCTGCTGGAATGATGCTGTATGCAGGACTGCCTGAGCTAAGTGGAATTCAAGACCTGAAATATG
TGTATAATAATCTTCGTCCACAAGACACAGACCTGGAAGCAACAAGTCATTTTACCAAGAAAATAAAGGAAAGTC

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FIGURE 1104B

TGGAGTGTTCCTGTAAATTGAATAACTTGATCCACACACTTGCACAAATGTCAGCCATAAGCCCTGCCAAAT
CTACTTCACAGACTTTTCCTCAGGAATCCTGTTTGCTGAGTACAAC TAGGTCGATTGAAAGAGCAATTTTAGGGT
TCAGCAAGAAATCCAGTAATCTGTATCTGATCCAGGTGACACACAGCAACAACGAAACAAGCCTGACAGAAAAAT
CATTTGAGCAGTTTTCAAAAC TTCACAGCCAAC TTCAGAAGCAGTTTGCATCACTGACTCTCCCAGAGTTTCCTC
ATTGGTGGCACCTACCTTTTACAAATTCAGATCACAGAAGATT CAGAGATCTAAATCATTACATGGAACAGATAT
TAAATGTATCACATGAAGTTACAAACAGTGATTGTGTACTTAGCTTTTTCTCTCTGAGGCTGTGCAACAAACAG
TTGAATCATCACCTGTGTACCTAGGTGAGAAGAAGTTTCCAGACAAGAAGCCTAAGGTGCAGTTAGTCATATCCT
ACGAGGATGTGAAGCTGACCATACTAGTGAAACACATGAAAAACATTCATCTCCCAGATGGCTCTGCGCCCAGTG
CACATGTTGAATTTTATCTTTTACCATATCCCAGTGAAGTTCTGAGGAGGAAAAACAAAATCTGTTCCAAAATGTA
CGGACCCCACTTACAATGAAATTGTAGTATATGATGAAGTCACAGAGCTCCAAGGACATGTCTTAATGCTTATTG
TGAAGAGTAAAACTGTATTTGTGGGAGCAATTAACATCCGACTCTGTAGTGTCCCACTCGATAAAGAAAAATGGT
ATCCATTAGGAAACAGTATAATTTACCATTGCTATTGAACATATGCATTATT CATTAACTACTTGTATTTTTTCA
CTTCCGGGCCCTCTGAATCACATAAGTAAGGCATCTTTGTTGTCAAAGACAGCACAGGGTATTAAGGACACAGAAA
AAAAATCAGAATTAGTCTTTTGTGTTGTTTATTTTCTACCTGTGCTTTCATTGTTTTTTCATAATCTTTTCTCCT
TCAGTGGAGTACTGATTGCATGAAATTTGATGTGTAAAATAATAAAAGACCTTTAATTAATCATTTTAATATATT
TTAAATTAAACATAGGTTTACATTTGTTTTAATTGTGTGCCTACAGTTAAAAGCAGTATTTTAATGTATTTTAT
AAGAAAGACAATCAAATAAACCTCATCAATTAATTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1105

MAYSWQTDPNPNESHEKQYEHQEFLEFVNQPHSSSQVSLGFDQIVDEISGKIPHYESEIDENTFFVPTAPKWDSTG
HSLNEAHQISLNEFTSKSRELSWHQVSKAPAIGFSPSVLPKPQNTNKECSWGSPIGKHHGADDSRFSILAPSFTS
LDKINLEKELENENHNYHIGFESSIPTNSSFSDFMPKEENKRSGHVNIVEPSLMMLLKGSIQPGMWESTWQKNI
ESIGCSIQLVEVPQSSNTSLASFCKNVKKIRERYHAADVNFNSGKIWSTTTAFPPYQLFSKTKFNIHIFIDNSTQP
LHFMPCANYLVKDLIAEILHFCTNDQLLPKDHILSVCGSEEFQNDHCLGSHKMFQKDKSVIQLHLQKSREAPGK
LSRKHEEDHSQFYLNQLLEFMHIWKVSRQCLLTIRKYDFHLKYLLKTQENVYNIIEEVKKICSVLGCVETKQIT
DAVNELSLILQRKGENFYQSSETSAKGLIEKVTTTELSTSIYQLINVYCNSFYADFQPVNVRCTSYLNPGLPSHL
SFTVYAAHNIPETWVHRINFPLEIKSLPRESMLTVKLFGIACATNNANLLAWTCLPLFPKEKSILGSMLFSMTLQ
SEPPVEMITPGVWDVVSQPSVTLQIDFPATGWEYMKPDSEENRSNLEEPLKECIKHIARLSQKQTPLLLSEEKKR
YLWFYRFYCNNENC SLPLVLGSAPGWDERTVSEMHTILRRWTF SQPLEALGLLTSSFPDQEIRKVAVQQLDNLLN
DELLEYLPQLVQAVKFEWNLESPLVQLLLHRSLSIQVAHRLYWLLKNAENEAYFKSWYQKLLAALQFCAGKALN
DEFSKEQKLIKILGDIGERVKSASDHQRQEVLLKEIGRLEEFFQDVNTCHLPLNPALCIKGIDHDACSIFYTSNAL
PLKITFINANLMGKNISIIFKAGDDL RQDMLVLQLIQVMDNIWLQEG LDMQMI IYRCLSTGKDQRLVQMVPDAVT
LAKIHRHSGLIGPLKENTIKKWF SQHNHLKADYEKALRNFFYSCAGWCVVTFILGVCDRHNDNIMLTSGHMFHI
DFGKFLGHAQTFGGIKRDRAPFI FTSEMEYFITEGGKNPQH FQDFVELCCRAYNIIRKHSQ LLLNLLEMMLYAGL
PELSGIQDLKYVYNNLRPQD TDLEATSHFTKKIKESLECFPVKLNNLIHTLAQMSAISP AKSTSQTFPQESCLLS
TTRSIERAILGFSKKSSNLYLIQVTHSNNETSLTEKSFEQFSKLHSQ LQKQFASLTLP EFPHWWHLPTNSDHRR
FRDLNHYMEQILNVSHEVTNSDCVLSFFLSEAVQQTVESSPVYLGEKKFPDKKPKVQLVISYEDVKLTILVKHMK
NIHLPDGSAPS AHVEFYLLPYPSEVLRRTKTSVPKCTDPTYNEIVVYDEVTELQGHVLM LVLIVKSKTVFVGAINIR
LCSVPLDKEKWYPLGNSIISPLL

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FIGURE 1106

CAGCATGTTGAGCCGGGCAGTGTGCGGCACCAGCAGGCAGCTGCCTCCGGTTTTGGGGTATCTGGGCTCCAGGCA
GAAGCACAGCCTCCCCGACCTGCCCTACGACTACGGCGCCCTGGAACCTCACATCAACGCGCAGATCATGCAGCT
GCACCACAGCAAGCACCACGCGGCCTACGTGAACAACCTGAACGTCACCGAGGAGAAGTACCAGGAGGCGTTGGC
CAAGGGAGATGTTACAGCCCAGATAGCTCTTCAGCCTGCACTGAAGTTCAATGGTGGTGGTCATATCAATCATAG
CATTTTCTGGACAAACCTCAGCCCTAACGGTGGTGGAGAACCCAAAGGGGAGTTGCTGGAAGCCATCAAACCTGGA
CTTTGGTTCCTTTGACAAGTTTAAGGAGAAGCTGACGGCTGCATCTGTTGGTGTCCAAGGCTCAGGTTGGGGTTG
GCTTGGTTTCAATAAGGAACGGGGACACTTACAAATTGCTGCTTGTCCAAATCAGGATCCACTGCAAGGAACAAC
AGGCCTTATTCCACTGCTGGGGATTGATGTGTGGGAGCACGCTTACTACCTTCAGTATAAAAAATGTCAGGCCTGA
TTATCTAAAAGCTATTTGGAATGTAATCAACTGGGAGAATGTAAGTAAAGATAACATGGCTTGCAAAAAGTAAAC
CACGATCGTTATGCTGAGTATGTTAAGCTCTTTATGACTGTTTTTGTAGTGGTATAGAGTACTGCAGAATACAGT
AAGCTGCTCTATTGTAGCATTTCTTGATGTTGCTTAGTCATTATTTTATAAAACAACTTAATGTTCTGAATAATT
TCTTACTAAACATTTTGTATTGGGCAAGTGATTGAAAATAGTAAATGCTTTGTGTGATTGAATCTGATTGGACA
TTTTCTTCAGAGAGCTAAATTACAATTGTCATTTATAAAACCATCAAAAATATTCCATCCATATACTTTGGGGAC
TTGTAGGGATGCCCTTCTAGTCCTATTCTATTGCAGTTATAGAAAATCTAG

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FIGURE 1107

MLSRVCGTSRQLPPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAK
GDVTAQIALQPALKFNNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKLDFGSFDKFKEKLTAAASVGVQSGSGWGL
GFNKERGHLLQIAACPNDPLQGTGLIPLLGIDVWEHAYYLQYKNVRPDYLLKAIWNVINWENVTERYMACKK

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FIGURE 1108A

GAGATA TCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGGAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCCGTGGAAGTCTGCTCGTCTGATGGTTCACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGCACAGAGTTAAACCAGGCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCCACGACCTGCAGCGCTTCCCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCTCAGATGAGCTAGCCAAGGATGTCACCGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTTC
AGCGCAGGATGATGCTGGATCAGTGCCTTGAACTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAACTGGA
TGGCTGCCCCGGGAGGCCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTGACAAAGCGATTACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCAACACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAACTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTGAGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTGACGGCTGGAAGAGTCTTGGAAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAAGACAGACTTACCCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGACACC
TGGAGAAAGCTGCAGCCAGAGAAAAGCGAAGCTGGATGAGAACTCGGCCTTCCCTTCAAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACAGTTTCACTCCAAGGCCATCAGAGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACCTAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAGATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGAAGAAATCAAAGCTTTGCGCGAGGCCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1108B

CCCAGCACGCCAACGCCTTCCAACAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTTCGTGAAGTGAAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCC
TGCGTCGCTTGCTGTCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCTCCTCCCCTTGTT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAAA
AAAAAAAC

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FIGURE 1109

GCGCGGCCCCGAACCGCCGCCAGGCCGGCACGGGGGAAGGAGCCGGTGGGGGTAGGGGGTGCGGTGGGGGGTGGG
GACCCCTCCGGCTCTTGGGGGTCCCAGTCCCCGCCGGCTGCTGAGCGGGTGGGGTGGTGGAGGAGCTGCAGAG**ATG**

TCCGGCCAGAGCCTGACGGACCGAATCACTGCCGCCAGCACAGTGTACCGGCTCTGCCGTATCCAAGACAGTA
TGCAAGGCCACGACCCACGAGATCATGGGGCCCAAGAAAAAGCACCTGGACTACTTAATTCAGTGCACAAATGAG
ATGAATGTGAACATCCCACAGTTGGCAGACAGTTTATTTGAAAGAACTACTAATAGTAGTTGGGTGGTGGTCTTC
AAATCTCTCATTACAACCTCATCTTTGATGGTGTATGGAAATGAGCGTTTTATTTCAGTATTTGGCTTCAAGAAAC
ACGTTGTTTAACTTAAGCAATTTTTTGGATAAAAGTGGATTGCAAGGATATGACATGTCTACATTTATTAGGCGG
TATAGTAGATATTTAAATGAGAAAGCAGTTTCATACAGACAAGTTGCATTTGATTTACAAAAAGTGAAGAGAGGG
GCTGATGGAGTTATGAGAACAAATGAACACAGAAAACTCCTAAAACTGTACCAATTATTTCAGAATCAAATGGAT
GCACCTTCTTGATTTTAAATGTTAATAGCAATGAACCTTACAAATGGGGTAATAAATGCTGCCCTTCATGCTCCTGTTT
AAAGATGCCATTAGACTGTTTGCAGCATACCATGAAGGAATTATTAATTTGTTGGAAAAATATTTTGATATGAAA
AAGAACCAATGCAAAGAAGGTCTTGACATCTATAAGAAGTTTCTAAGTATGACAGGAATCTCAGAGTTCCTC
AAAGTTGCAGAGCAAGTTGGAATTGACAGAGGTGATATACCAGACCTTTTCAGAGGCCCTAGCAGTCTTCTTGAT
GCTTTGGAACAACATTTAGCTTCTTGAAGGAAAGAAAATCAAAGATTCTACAGCTGCAAGCAGGGCAACTACA
CTTTCCAATGCAGTGTCTTCCCTGGCAAGCACTGGTCTATCTCTGACCAAAGTGATGAAAGGGAAAGCAGGCA
GCATTAGAGGAAGAACAGGCACGTTTGAAGCTTTAAAGGAACAGCGCCTAAAAGAACTTGCAAAGAAACCTCAT
ACCTCTTTAACAACCTGCAGCCTCTCCTGTATCCACCTCAGCAGGAGGGATAATGACTGCACCAGCCATTGACATA
TTTTCTACCCCTAGTTCTTCTAACAGCACATCAAAGCTGCCCAATGATCTGCTTGATTGCAGCAGCCAACCTTT
CACCCATCTGTACATCCTATGTCAACTGCTTCTCAGGTAGCAAGTACATGGGGAGATCCTTCTCTGCTACTGTA
GATGCTGTTGATGATGCCATTCCAAGCTTAAATCCTTTCTCACAAAAAGTAGTGGTGATGTTACCTTTCCATT
TCTTCAGATGTATCTACTTTTACTACTAGGACACCTACTCATGAAATGTTTGTGGATTCACTCCTTCTCCAGTT
GCACAGCCACACCCTTCAGCTGGCCTTAATGTTGACTTTGAATCTGTGTTTGGAAATAAATCTACAAATGTTATT
GTAGATTCTGGGGGCTTTGATGAACTAGGTGGACTTCTCAAACCAACAGTGGCCTCTCAGAACCCAGAACCTTCCT
GTTGCCAAACTCCCACCTAGCAAGTTAGTATCTGATGACTTGGATTTCATCTTTAGCCAACCTTGTGGGGCAATCTT
GGCATCGGAAATGGAACCACTAAGAATGATGTAAATTGGAGTCAACCAGGTGAAAAGAAAGTTAACTGGGGGATCT
AACTGCGAACCAGGTTGCACCAACAACCGCTTGAATGCTGCAACAATGGCACCCCTGTAAATGGCCTATCCT
GCTACTACACCAACAGGCATGATAGGATATGGAATTCCTCCACAAATGGGAAGTGTTCCTGTAAATGACGCAACCA
ACCTTAATATACAGCCAGCCTGTCATGAGACCTCCAAACCCCTTTGGCCCTGTATCAGGAGCACAGATACAGTTT
ATGTAACTTGATGGAAGAAAATGGAATTACTCCAAAAGACAAGTGCTCAAGCAGCAAAAATCCTTACTTCCAGCA
AAATCCAAACTGCTGTCTCTTAAATCTCTTAACTCTCTTCTCCATTAGGATGCTACAAGTAXCTCAGTGAAGG
CCCATGAAGGGAATGGGGACTAGTTTATAGGGXGAACGTATTACAGTTTATAAAGGCCAGGATTGGXTTG
GATTTTAGGATTAXGTTC

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FIGURE 1110

MSGQSLTDRTAAQHSVTGSAVSKTVCKATTHEIMGPKKKHLDYLIQCTNEMNVNIPQLADSLFERTTNSSWVVV
FKSLITTHHLMVYGNERFIQYLASRNTLFNLSNFDKSGLQGYDMSTFIRRYSRYLNEKAVSYRQVAFDFTKVKR
GADGVMRTMNTTEKLLKTVPIIQNQMDALLDFNVNSNELTNGVINAAFMLLFKDAIRLFAAYHEGIINLLEKYFDM
KKNQCKEGLDIYKKFLTRMTRISEFLKVAEQVGIDRGDIPDLSQAPSSLLDALEQHSLASLEGKKIKDSTAASRAT
TLSSNAVSSSLASTGLSLTKVDEREKQAALEEEQARLKALKEQRLKELAKKPHTSLTTAASPVSTSAGGIMTAPAI
IFSTPSSSNSTSKLPNDLLDLQQPTFHPSVHPMSTASQVASTWGDPFSATVDAVDDAIPSLNPFLTKSSGDVHLS
ISSDVSTFTTRTPTHEMFVGFTPSPVAQPHPSAGLNVDVESVFGNKSTNVIVDSGGFDELGGLLKPTVASQNQNL
PVAKLPPSKLVSDDLSSLANLVGNLGGNGTTKNDVNWSQPGEKKLTGGSNCEPKVAPTTAWNAATMAPPVMA
PATTPTGMIGYGIPPMGVSFVMTQPTLIYSQPVMRPPNPFPGPVSGAQIQFM

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FIGURE 1111

AAGAATGTGGCAAAGGCTTTAGTATATTCTCAACCCTTACTAAACATAAGATAATTCATACTGGAGAGAAACCTT
ACAAATGCAATGAATGTGGTAAAGCCTTTAACTGGTCCTCAACTCTTACTAAACATAAGAGAATTCATACTGGAG
AGAAACCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAAACAGTCCTCAACCCTTACTAGACATAAGATAGTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGGTAAAGCCTTTTAAACGGTCCACAACCTCTAAAACATAAGA
GAATTTATACTAAAGAGAAACCATAACAAATGTGAAGAATGTGGAAAAGCCTTTAGTGTATTCTCAACCCTTACTA
AACATAAGATAATTCATACTGGAGCAAAACCTTACAAATGTGACGAATGTGGCAGTGCCTTTAGGGCATTCTCAA
CCCTTACTGAACATAAGAGAGTTCATACTGGAGAGAAAACCTTACAAATGCAATGAATGTGGTAAAGCCTTTAACT
GGTCCTCAACTCTTACTAAACATAAGAGAATTCATACTGGAGAGAAAGCCCTACAAATGTGAAGAATGTGGCAAAG
CTTTTAAACGGTGCCTCAAACCTTACTCGACATAAGAAAATTCATACTGGAGAGAAACCATACAAACCTAAAAGAT
GTGACAGTGCCTTTTGACAACACCCCAAACCTTTCTAGACATAAAAGAAATCATATGGGTGAGAAATCCTAGAAAT
GTGAAGAATGTGACAAAGCCTTTAAGCGGTTGTCACACTTGATTGTATATAAGATAATTCATACTGGAGAAAACCT
CCCAGAAGTGTGACAAATGTGACAAAACATTTAATTAATTCTCATACCTTATTGCACAGGAAAGCATTATACTT
GAGAAAAATTGTATAAAGAATGGAAAAGTCATTAATATCTGCTCATATCTTAACATCAGCGAGTTGGTATTTAAT
AAAAGC

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FIGURE 1112

ECGKGFSIFSTLTCHKIIHTGEKPYKCNECGKAFNWSSTLTCHKRIHTGEKPYKCEECGKAFNQSSTLTRHKIVH
TGEKPYKCEECGKAFKRSTLTCHKRIYTKEKPYKCEECGKAFSVFSTLTCHKIIHTGAKPYKDECGSAFRAFST
LTEHKRVHTGEKPYKCNECGKAFNWSSTLTCHKRIHTGEKPYKCEECGKAFNRSSNLTRHKIHTGEKPYKPKRC
DSAFDNTPNFSRHKRNMGEKS

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FIGURE 1113

TTCGGGTCATCTTTTGTCCCAAGTGCTTAGTCATATTGAGCTAATGTCAAGATCTTGTGTTGTTTAGTATCTTTA
GGAGTTCGAAGCACAAACCCCGGAGATTTTTGTATTCTTTCAGTGCCTTCGTGAGGAGTAGGCAGGTATAAAATA
GAAAGGTAGGCTCAGAACAAAAAAAAGTATTTGGAATACAGAATTCTGATACACATGACTCTGCCTCTCTGGGT
GAATAAAGAGAAGAGAACTGGACTCAGTTGTACAGACCACCTAGTAACTGACCATGGTGTGATTTTTAAAGCGA
GGAAGCAGATGCCAGGCAGTGAAGACTTGCACACCGTCACACTGTAACTGGTAGAGAGGCAGTGTGTATCTTC
CGCTTCTCCTAAACGTTGGTCTAGGGTTCATCCTGCCTTATAGCACATGTTTAGTATACATATCCAAGGAAGTTT
TTTTGGTCACTGAGGCTGAACCTTATGGACAGTACTGCTGATTTAGTGATCTGACCTTGAATTAGGGGTTTCACA
AGAATCCAGGTCCCTGGTCCATGGAAGAACAGTGAGCACTTTTGATAATTGAGGTCTAGCTTAACATTCTGTGACC
AATAATATTTTAGTTAACAGAGATTCTGGTTCTTGGATCGAGGATATTATGTTTAAACAGGAAAAGGCTCTGAAAG
ATGTAATCTCTCTTTTTTTCAAGTTGCATAGATTGCACATGAGGATTTTGCCCACTTAGCAACTTCATTCTACTT
TTGCAGGAATAGAACCCAAGTCTTCTGACTTTCACTGCATTAGCTTATTTTTTCCCTCATTTTTAGTTCTTTCAAG
AATCATTAAATTCCATGCTTGAAAATGTCTGAATGGCACTAATGAGGATAAGTTTTTAACTCTTTGAATTCTTAA
TGTGAACCTAACAGGAAAAAATCTCAGAGCTAACAAATTAGAGTTGGTAAAGGGCCGATTATAAGTGTCTCACA
ATTTATGGGTGTAAATCAAAATGTAACTAGTACAGTCATAAGCTGTTTGTACAATCCTTAGGCCTTAACCTCTT
TGGAATTGGCAAGCTAGGCATTTGACATGTATTTATATAACTGTACGGTTGTAGTTATTAATGATCTTGTCTATTA
TTGTTGATAATGAAAAAGATCTTCACTATAATTTCTTCGTATAATTCTTATAATGAAACAAGTAAATACTATTA
ACTAGAAAAATCTAGTCTGCAGTTAGCCACACACATCCAACTTATCTCTGCCAGCAGCAAAAGAAAGCTTGA
AAACCTTTGCCAAAATCAGAAAGTTTCCATTTAGATTACATAAGTTTCTGTTGAATTGAAATATATTTAGATAAC
ATTTAAACCATTGATCTTTTGGTATTAACCTCTCAGATGTTTCATAACTTTCTGTCTTTTGTAGTATTCAGGGATAT
TATGTAAAGTTTTTCTGCACTGAATCTCTGTGCTTGAGCCTACTGAAATGATCCCCCTAAGCCATGCTGCCTGC
CTTTTGTGTTTAAATGTTTTTTTACACTGACTTATCTCCTTCGTGTGTTACCTCTCCCCCAGAGGAAGACAACAG
AACAGTATAATTTACAGTTTGTACAGGTAAA

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FIGURE 1114

MIPLSHAACLLCLMFFYTDLSPSCVHLSPRGRQONSIIYSLYR

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FIGURE 1115

GGCACGAGGCGCCAGTCCCCTAACCCCTGAGGCTGCCGCGCGGCGGTCACTGCGCCGGGGTAGTGGGCCCCAGTGT
TGCGCTCTCTGGCCGTTCCCTTACACTTTGCTTCAGGCTCCAGTGCAGGGGCGTAGTGGGATATGGCCAACTCGGG
CTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAG
GATCCACCTCCGAAACCCCTCGGCGGCGTTCCTTCTGTGTGGCCCGCCTGCAGGATTTTAAAGCTTGACTTTGGCAA
TTCCCAAGGCAAAACAAGTCAAACCTTGGCATGGAGGGATAGCCACCATTTTTTCAGAGTCCCTGGCGATGAAGTGTG
GGGAGTAGTATGGAAAATGAACAAAAGCAATTTAAATTCTCTGGATGAGCAAGAAGGGGTAAAAAGTGAATGTA
TGTTGTAATAGAAGTTAAAAGTTGCAACTCAAGAAGGAAAAGAAATAACCTGTGGAAGTTATCTGATGACAAATTA
CGAAAGTGCTCCCCCATCCCCACAGTATAAAAAGATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGA
GTATCAAGAGAAGTTAAAAGCAATAGAACCAAATGACTATACAGGAAAGGTCTCAGAAGAAATTGAAGACATCAT
CAAAAAGGGGGAAACACAAACTCTTTAGAACATAACAGAATATATCTAAGGGTATTCTATGTGCTAATATAAAAT
ATTTTAAACACTTGAGAACAGGGATCTGGGGGATCTCCACGTTTGATCCGTTTTACAGCAGTGCTCTGAAGGAGTA
TCTTACTTGGGTGATTCCCTTGTTTTTAGACTATAAAAAGAAACTGGGATAGGAGTTAGACAATTTAAAAGGGGTG
TATGAGGGCCTGAAATATGTGACAAATGAATGTGAGTACCCCTTCTGTGAACACTGAAAGCTATTCTCTTGAATT
GATCTTAAGTGTCTCCTTGCTCTGGTAAAAGATAGATTTGTAGCTCACTTGATGATGGTGCTGGTGAATTGCTCT
GCTCTGTCTGAGATTTTTAAAAATCAGCTTAATGAGAGTAATCTGCAGACAATTGATAATAACATTTTGAAAATT
GGAAAGATGGTATACTGTTTTTAGAGGAATAAACGTATTTGTGGTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1116

MANSGCKDVTGPDDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDGNSQGKTSQTHGGIATIFQSP
GDEVWGVVWKMNKSNLNSLDEQEGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESAPPSQYKKIICMGAKEN
GLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL

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FIGURE 1117

TGTTGGGGGTATAA~~CT~~GGAAGCTAATTTTTAAAGAATCCTGCCATATCTTTGATAAGGAAGTTCTATGGCTTAA
AGAGTGTAACCACTAGTTTTAGCAGAGATGTTTCCTTTAGTTTTGAAACATTCTTCAACATTTTCAGGTTTCATGAT
GAAAAATGGCTGACTGGATTTAAGTCCTTTATTTTCTATACTCCTGAGCAAAATTCTGAAAAAAGCTGGCTGGTCTA
GTTTAGAGAAGAACGCTGATGTGGGAGTATTTTACCATGCATTCTGCTCTAAATCCTTTGCTTCTACTGATAG
ACTATTCTACTTTTCGAAATAAGTTCACATTGCTCTAACACTTTCATAAGTTCAATCTTTTTCTCATTCTGTTTAAA
ATAACCACCATGACCACCAAACGCCTGAAATTCAGTGTAGTTAAAATTATGACTGAAATAGACAGGGAAAACCTG
AGAGTGAACGTTACCCAGCAAATCTGGGTTAAACAGGTTTCGAGTTTTTCCAGAGCACACTGTTTAGGATTTTCAGC
TTCTGTTCAACCATCTCGGAAACAGGGTGTTTCTCTGCTCCTTTGTGAGGACTAACCATGTGTCCCCGCCACTT
TGCACCAAAGCTGAATATCATCCCAAACCTCTGGATCCTTCTGACGGGCATTTGTGTGGTACACAGGAAGGGGTGC
ATTATGAATATGCAATTACTGGCATGTAATGCTGTCTTCTGCTAAAAATACAAAAAGGGTACTCTGATCTCAGAG
TTGGGAGCTGATTTCTGATTTTCAGCCTAGACAGGTCTGCTTAAAACTATAATCAAGCTGATTGTATTGCCCTGGA
ATTCTAATTTCCAATTTAGGGTTTTGCTATATAATCTCTAGTAGAGTGTGTCTAATCTTTATGAAACCCAGAGTC
TTTGTATAAACTCTATGGATTTTCTTCCATGCGTCTAGGCTGAGCTGAGCTGTGTCTTTAGGCTGAGCTGTAGAG
ACATTAAATTACTGAGTAAATGAAGGTAACGTTGTTATGTCACTCTGTTTCTGAAAGACCAACTCAAATTCGTCTC
TGCTGTAGCTTTGATCCTTTTCATTTAATTCTAAGTACACTTGTTATTATAGTAACTGTTGTTGTATGTTATTT
TAGCTTTTTACTTAAGTAGCTATTTAGCAATTTAAATGAAAATGTAATTAGGTTACATCTGTTTACATGCATGT
AATACCACGCAGATGTAACTTCTATTAAAGCCATATTTTCTTTTGGCAAGAAAAGGCAGAAACAAAATCGTGC
CAGTCGCTGGAATACGTCTTGCTCTAAAAAAATTAAGGATATACAGAGCACTGTGCCATTATTTATATG
GTGGTTAGAGTACATCACTTCTATTTTTTGAATTAAGGATATTAACAAGTAAAAACAAGCATTCTATTC
CATGTTCCCTCTTACAGTTTATCTGGATACGGTGTTTAAAATGACAATACAGCCAGGCGCGGT

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FIGURE 1118

CWGYNWKLIKFKRILPYL

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FIGURE 1119

CCATGAATCCACTCCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCCTTTGATGATGATGACAAGATTG
TTGGGGGCTACACCTGTGAGGAGAATTCTGTCCCCTACCAGGTGTCCTTGAATTCTGGCTCCCACCTTCTGTGGTG
GCTCCCTCATCAGCGAACAGTGGGTGGTGTGTCAGCAGGTCACTGCTACAAGCCCCACATCCAGGTGAGACTGGGAG
AGCACAATATCGAAGTCCTGGAGGGGAATGAGCAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAAAATACA
ACAGGATTACTCTGAACAATGACATCATGCTGATCAAGCTCTCCACACCTGCCGTCATCAATGCCCATGTGTCCA
CCATCTCTCTGCCCCACTGCCCCCTCCAGCTGCTGGCACCAGTGCCTTATCTCCGGCTGGGGCAATACCCTGAGCT
CAGGGGCCGACTACCCAGATGAGCTGCAGTGCCTGGACGCTCCTGTGCTGACCCAGGCTAAGTGTAAGCCTCCT
ACCCTTTAAAGATTACCAGCAAGATGTTCTGTGTGGGCTTCCTTGAGGGAGGCAAGGATTCTGCCAGGGTGACT
CTGGTGGCCCTGTGGTCTGCAATGGACAGCTTCAAGGAATTGTCCTGCGGCTATGGCTGTGCCCAGAAGAGAA
GGCCTGGAGTCTACACCAAGGTCTACAACCTATGTGGACTGGATTAAGGACACCATAGCTGCCAACAGCTTAAAGCC
CCTGGTCACTCTGCAGTCTCTATACCAATAAAATAACCCTGTTCTCA

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FIGURE 1120

MNPLLLILAFVGAAVAVPFDDDDKIVGGYTCEENSVPYQVSLNSGSHFCGGSLISEQWVVSAGHCYKPHIQVRLGE
HNIEVLEGNEQFINAAKIIRHPKYNRITLNNDIMLIKLPSTPAVINAHVSTISLPTAPPAAGTECLISGWGNTLSS
GADYPDELQCLDAPVLTQAKCKASYPLKITSKMFCVGFLEGGKDSCQGDSGGPVCNGLQGIVSWGYGCAQKRR
PGVYTKVYNYVDWIKDTIAANS

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FIGURE 1121A

ATTTCTATAAAATATCACAAATATTTCCAACAAAAGAGCATAGATGTCTTTTATACAATTCTTTTGAGAATGATT
CTGCAGATTTCTGCATTTTCTCCTCATTAAATTTGACCTGGGATGGTTTTCTACTGAGGAAAAAATCTTTAAGCAA
ACATGTTAAATGTTTACCTATATAAAAAATTATTACTTCAGGTGACTCCGATAATATAACGCATGTGTGGAATGAG
GATGATGGACAGACCTTATCTCCAAGCAGTCTGGCTGCACAGCTCCTAATTCTGGAAAACCTTTGAAGATGCCCTC
TTAAATATATACAGCAAATAGTCCTTATATTCCCTTACTTGGCATGTGTGAGAAATGTGACTGACAGTTTGGCCAGA
GGTTCCACCAGAAAAATCTAAGACTCCTGCAGTCCACAATACGATTTAAAAAATCTTTTCTTCGCAATGGTTCCTAT
GAAGATTACTTTCTCCTCCAGTTCCTGAAGTCCTAAAATCAAACCTGTCTCAACTTCGAAAACCTTGACCGAACTTCTT
TGTGAATCTGAAACTTTTCAGTTTGATAGAGAAGTCATGCCAGCTCTCTGATATGAGCTTTGGGAGCCTGTGTGAA
GAAAGTGAGTTTGATCTGCAACTCCTCGAAGCGGCAGAGCTGGGCACCGAAATAGCAGCCAGCTTACTGTACCAT
GACAATGTCATATCTAAAAAGTGAGAGATTGCTGACTGGAGATCCAAGCAAATTAATTTAAATATGGATCAG
TTTCTAGAACAGGCACTGCAAATGAATTACTTGGAAAATATCACTCAGTTAATACCGATCATAGAAGCCATGCTG
CATGTCAATAACAGTGCAGATGCTTCTGAAAAGCCAGGTGAGTTACTAGAAATGTTTAAAAATGTTGAAGAGCTG
AAAGAAGATTTAAGGAGAACACAGGAATGTCCAACAGGACTATTGACAAGTTGCTGGCCATTCCCATCCCTGAT
AATAGAGCTGAGATTATTTCTCAGGTGTTCTGGCTGCATTCTGTGATACTAATATCACCCTCCCAAACCTAGAA
GATGCAATGAAAGAATTCTGCAACCTGTCTCTTTCAGAGAGATCCCGGCAGTCTTACCTCATCGGACTCACCCCTT
CTGCACTACTTAAACATTTACAACCTTCACATACAAGGTGTTTTTCCCGAGGAAAGATCAAAAAGCCAGTAGAAAAG
ATGATGGAGCTCTTCATAAGACTAAAAGAGATTCTCAATCAGATGGCTTCTGGCACACATCCGCTGCTAGACAAA
ATGAGATCCCTGAAGCAAATGCATCTGCCCAGAAGTGTTCCATTAAACACAGGCAATGTACAGAAGCAACCGAATG
AACACACCACAAGGATCATTTAGCACCATCTCCCAAGCATTATGTTCTCAAGGAATTACCACTGAATATTTAACT
GCCATGCTGCCCTCTTCCCAGAGGCCAAAAGGCAACCACACCAAGGATTTTTTGAAGTTATAAAATTAACATAAGAG
CAAATTGCTTCAAAATATGGAATTCCCATAAATACCACACCATTTTGCCTCTCCCTTTATAAAGACATCATTAAC
ATGCCCCTGGACCTGTGATTGTTGGCTTTCTTGAAACCTATGTTGTTGGGAAGAATTTGTATGCACCATATAAC
CCAGTCACAAAGGCAATAATGGAAGTCCGATGTAACCTCTGAGACAGCTGGCGGAATTAAGAGAAAAATCTCAA
GAGTGGATGGATAAGTCGCCACTTTTCATGAATTCTTCCATCTGTTAAACCAGGCAATTCGAATGCTCCAGAAT
ACTCTAAGGAACCCCTTTTGTGCAAGTTTTTGTAAAGTTCTCCGTGGGACTCGATGCTGTTGAAGTATTGAAACAG
ATAGATGAACTCGATATTCTAAGACTGAAATTAGAGAACAACATTGACATCATCGATCAGCTTAACACACTATCT
TCCCTGACAGTAAATATTTCTCTTGTGATTATATGACCGTATTGAGGCAGCAAAAACCATAGATGAAATGGAG
AGAGAGGCTAAAAGGCTCTACAAAAGCAACGAACCTCTTGGAAAGTGTTATTTTAAAGCTTCCTTCTAACAGAAGC
TGGCACAGAGGCTATGACTCTGGAAATGTCTTTCTTCTCCTGTCTATAAAATATACCATCCGGATGAGTCTCAAG
ACCGCACAGACCACAAGAAGCCTAAGAACCAAGATTTGGGCTCCAGGGCCACACAATTCTCCATCACACAACCAG
ATCTATGGCAGGGCTTTTATTTATTTACAGGATAGTATTGAAAGAGCAATCATTGAATTGCAAACCTGGAAGGAAC
TCCCAGGAAATAGCAGTCCAGGTTCAAGCAATTCCTTATCCCTGCTTCATGAAAGACAACCTCTTAACCAAGTGT
TCTTATTCTCTTCCAATTGTGCTTATGGTTGCCTGGGTTGTATTTATAGCTGCCTTTGTAAAAAAGCTTGTCTAT
GAGAAAGACCTCCGGCTTCATGAGTACATGAAGATGATGGGTGTGAACCTCTGCAGCCATTTCTTTGCCTGGCTT
ATAGAGAGTGTGGATTTTACTGGTTACCATCGTGATCCTCATCATTATACTCAAGTTTGGCAATATTCTTCCT
AAAACAAATGGGTTTCAATTTTGTTCCTGTATTTTTCGGACTACAGCTTCTCGGTTATTGCCATGAGCTATCTTATC
AGTGTCTTCTTCAACAACACCAACATTGCAGCTCTGATCGGAAGCCTCATCTACATCATTGCCTTCTTTCCATTT
ATTGTTCTGGTTACAGTGGAGAATGAGTTGAGCTATGTATTGAAAGTGTTTATGAGCCTGCTGTCCCCAACAGCA
TTCAGCTATGCAAGCCAATACATTGCACGATACGAAGAACAGGGCATTGGTCTTCAGTGGGAAAAATATGTACACC
TCCCCGGTTCAAGATGACACCACCTCATTGGCTGGCTGTGCTGTCTAATCCTAGCTGACTCTTTCATTTATTTT
CTTATTGCTTGGTATGTCAGGAATGTCTTCCCAGGGACATACGGTATGGCAGCTCCCTGGTATTTTCCAATTCTT
CCTTCTTATTGGAAGGAGCGATTGGGTGTGCAGAGGTGAAGCCTGAGAAGAGCAATGGCCTCATGTTTACTAAC
ATCATGATGCAGAACCAACCCATCTGCCAGTCTGAATACATGTTTTCTCTAACATCGAGCCTGAACCTAAA
GATCTCACAGTCGGGGTTGCCCTGCATGGGGTCACAAAGATCTATGGCTCAAAAGTTGCTGTTGATAACCTCAAT
CTGAACTTTTATGAAGGGCATATTACTTTCATTGCTGGGGCCCAATGGAGCTGGGAAAACCTACTACCATTTCCATG
TTAACTGGGCTGTTTGGGGCCTCAGCAGGCACCATTTTTGTATATGGAAAAGATATCAAAACAGACCTACACAG
GTACGGAAGAACATGGGAGTCTGTATGCAGCACGACGTCTTGTTAGTTACCTCACTACTAAGGAGCACCTTCTC
CTATATGGTTCCATCAAAGTTCCTCACTGGACTAAAAAGCAGCTCCACGAGGAAGTAAAAAGGACTTTAAAGAT

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FIGURE 1121B

ACTGGACTATATAGCCATCGTCATAAGAGAGTTGGAACACTGTCAGGAGGCATGAAGAGGAAGTTATCTATATCC
ATAGCTCTCATTGGTGGATCAAGGGTAGTAATTTTGGATGAACCATCTACTGGAGTTGACCCATGTTCTCGCCGA
AGTATATGGGATGTTATATCCAAGAACAACAACTGCCAGAACAATCATTCTGTCAACGCACCACTTGGACGAGGCT
GAAGTGCTGAGTGACCGCATCGCCTTCTGGAGCAGGGTGGGCTTAGGTGCTGTGGGTCCCCATTTTACCTCAAG
GAAGCCTTTGGCGATGGGTATCACCTCACGCTTACCAAGAAGAAGAGTCCAAATTTAAATGCAAATGCAGTATGT
GACACCATGGCCGTGACAGCAATGATCCAATCACATCTCCCCGAAGCCTACCTCAAGGAGGATATTGGGGGAGAG
CTTGTTTATGTACTTCTCCATTACAGCACCAAGTCTCAGGGGCCTACCTGTCACTCCTACGGGCACTCGACAAT
GGCATGGGTGACCTCAACATCGGGTGCTACGGCATTTCAGATACCACCGTGGAGGAGGTCTTTCTGAACCTTGACC
AAAGAGTCACAAAAAATAGTGCTATGAGTCTTGAGCACTTAACACAAAAGAAAAATTGGGAATTCCAATGCCAAT
GGCATCTCAACTCCTGACGATTTATCTGTGAGCAGCAATTTACAGACAGAGATGACAAAATCCTGACAAGA
GGAGAGAGGCTGGATGGCTTTGGACTGTTGCTGAAGAAGATCATGGCTATACTCATCAAGAGGTTCCACCACACC
CGCAGGAAGTGGAAAGGTCTCATTGCTCAGGTTATCCTCCCCATCGTCTTTGTTACCACTGCCATGGGCCTTGGC
ACACTGAGAAATTCAGCAACAGTTATCCAGAGATTAGATCTCCCCCTCTCTTTATGGTACCTCCGAACAGACA
GCCTTCTATGCTAATTATCACCCGAGCAGCGAAGCACTTGTCTCAGCAATGTGGGACTTCCCTGGAATTGACAAC
ATGTGTCTGAACACCAGTGATCTACAGTGTTTTAAACAAAGACAGTCTGGAAAAATGGAAACACCAGTGGAGAACCC
ATCACTAATTTTGGTGTTTGTCTCCTGCTCAGAAAATGTCCAGGAATGTCTTAAATTTAACTATTCCCCACCGCAC
AGAAGAACTTACTCATCCCAGGTAATTTATAACCTCACTGGGCAACGAGTGGAAAAATTATCTTATATCAACTGCA
AATGAGTTTGTCCAAAAAGATATGGAGGTTGGAGTTTGGGGCTGCCTTTGACAAAAGACCTTCGTTTTGATATA
ACAGGAGTCCCTGCCAATAGAACACTTGCCAAGGTATGGTATGATCCAGAAGGCTATCACTCCCTTCCAGCTTAC
CTCAACAGCCTGAATAATTTCTTCTGCGAGTTAACATGTCAAATACGATGCTGCCCCGACATGGCATCATCATG
TATAGCCATCCTTATCCAGGAGTGCAAGACCAAGAACAAGCCACAATCAGCAGTTTTAATCGATATTTTAGTGGCA
CTGTCTATCTTGATGGGCTACTCTGTACACACCGCCAGCTTTGTCTACCTATGTTGTAAGGGAACATCAAACCAA
GCCAAACAGTTGCAGCACATTTACAGGCAYTGGCGTGACATGCTACTGGGTAACAAACTTCATTTATGACATGGTT
TTCTACTTGGTGCTGTAGCGTTTTCAATTGGTATCATTGCGATTTTCAAATTACCTGCATTCTACAGTGAAAAC
AACCTAGGCGCTGTATCTCTCTACTTCTCCTGTTTGGGTATGCAACATTTTCTTGGATGTAATGCTGGCTGGG
CTCTTCCATGAAACAGGAATGGCCTTCATCACTTACGTCTGTGTCAACTTGTTTTTTGGCATTAAATCCATTGTT
TCCCTGTCTAGTGGTATACTTTCTTTCCAAGGAAAAGCCTAATGATCCGACTTTAGAACTTATTTCTGAAACCCCTC
AAGCGCATTTTCTGATTTTCCCACAATTTCTGTTTTGGCTACGGTTTGATTGAACCTTCTCAACAACAGTCGGTC
CTAGACTTCTTAAAGCATATGGAGTGGAATACCCAAATGAAACCTTTGAGATGAATAAACTAGGTGCAATGTTT
GTGGCTTTGGTTTTCTCAGGGCACCATGTTTTTTCTTGCAGCTCTTAATCAACGAATCCCTGATAAAGAACTC
AGGCTTTTCTTCAGAAAAATTTAATTCTTCACATGTAAGGGAGACAATAGATGAGGATGAAGATGTGCGGGCTGAG
AGATTAAGAGTTGAGAGTGGTGCAGCTGAATTTGACTTGGTCCAACCTTTATTGTCTCACAAGACCTACCAACTT
ATCCACAAAAAGATTATAGCTGTAAACAACATCAGCATTGGGATACCTGCTGGAGAGTGTTTTGGGCTTCTTGGA
GTGAATGGAGCAGGAAAGACCACTATATTCAAGATGCTGACAGGAGACATCATTCTTCAAGTGGAACATTCTG
ATCAGAAATAAGACCGGATCTCTGGGTACGTTGATTCTCACAGCTCATTAGTTGGCTACTGTCTCAGGAAGAT
GCCTTAGATGACCTGGTAACCTGTGGAAGAACATTTGTATTTCTATGCCAGGGTACATGGAATTCAGAAAAGGAT
ATTAAAGAACTGTTTATAAACTCCTTAGGAGACTTCACCTGATGCCCTTCAAGGACAGAGCTACCTCTATGTGC
AGTTATGGCACAAAAAGAAAATTATCCACTGCACTGGCCTTGATAGGGAACCTTCCATTCTACTGCTGGATGAG
CCGAGCTCTGGCATGGATCCGAAGTCGAAACGGCACCTCTGGAAGATCATTTCAGAAGAAGTACAGAACAAATGT
TCCGTCTCCTCATCTCACAGCATGGAAGAATGTGAAGCTCTCTGTACCAGGTTGGCCATTATGGTGAATGGA
AAGTTTCAATGTATTGGATCTTTGCAGCACATAAAGAGCAGGTTTGGACGAGGATTTACTGTCAAAGTTCACTTG
AAGAATAACAAAGTGACCATGGAGACCCTCACAAAGTTCATGCAGCTGCACCTTTCAAAAAACATACTTAAAAGAT
CAGCACCTCAGCATGCTAGAGTATCATGTACCAGTCACAGCAGGAGGAGTCGAAACATTTTTGATCTGCTGGAA
ACCAACAAGACTGCTTTAAATATTACAAATTTCTTAGTGAGTCAGACCACTCTGGAAGAGGTTTTTCATCACTTT
GCCAAAGACCAGAAGTCTATGAAACTGCTGATACCAGCAGCCAAGGTTCCACTATAAGTGTTGACTCACAGAT
GACCAGATGGAGTCTTAACACTTCCAGCAA

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FIGURE 1122

MFTYIKIITSGSDSNITHVWNEDDGQTLSPSSSLAAQLLILENFEDALLNISANSPIPYLACVRNVTDLSLARGSP
ENLRLLQSTIRFKKSFLRNGSYEDYFPPVPEVLKSKLSQLRNLTELLCESETFSLIEKSCQLSDMSFGSLCEESE
FDLQLLEAAELGTEIAASLLYHDNVISKKVRDLLTGDP SKINLNMDQFLEQALQMNYLENITQLIP IIEAMLHVN
NSADASEKPGQLLEMFKNVEELKEDLRRTTGMSNRTIDKLLAIP IPDNRAEII SQVFWLHSCDTNITTPKLEDAM
KEFCNLSLSERSRQSYLIGLTLHLYLNIYNFTYKVFPRKDQKPEKMMELFIRLKEILNQMASGTHPLLDKMRS
LKQMHLP RSVP LTQAMYRSNRMNTPQGSFSTISQALCSQGITTEYLTAMLPSQRPKGNHTKDFLT YKLTKEQIA
SKYGIPINTTPFCFSLYKDIINMPAGPVIWAFLKPMLLGRILYAPYNPVTKAIMEKSDVTLRQLAELREKSQEW
DKSPLFMNSFHLLNQAIPLQNTLRNPFVQVFKFSVGLDAVELLKQIDELDILRLKLENNIDIIDQLNTLSSLT
VNISSCVLYDRIQAAKTIDEMEREAKRLYKSNELFSGSVIFKLP SNRSWHRGYDSGNVFLPPVIKYTIRMSLKTAQ
TTRSLRTKIWAPGPHNSPSHNQIYGRAFIY LQDSIERAI IELQTGRNSQEIAVQVQAIPYPCFMKDNFLTSVSY
LPVILMVAVVVFIAAFVKKLVYEKDLRLHEYMKMMGVNSCSHFFAWLIESVGFLLVITIVILIIILKFGNIPKTN
GFILFLYFSDYSFSVIAMSYLISVFFNNTNIAALIGSLIYIIA FFPFIVLVTVENELSYVLKVFMSLLSPTAFSY
ASQYIARYEEQGIGLQWENMYTSPVQDDTTSFGWLCC LILADSF IYFLIAWYVRNVFP GTYGMAAPWYFPI LPSY
WKERFGCAEVKPEKSNGLMFTNIMQNTNPSASPEYMFSSNIEPEPKDLTVGVALHGVTKIYGSKVAVDN LNLNF
YEGHITSLLGPNAGKTTTISMLTG LFGASAGTIFVYGKDIKTDLHTVRKNMGVCMQHDVLF SYLT TKEHLLLYG
SIKVPHTTKQLHEEVKRTLKDTGLYSHRHKRVGTLSGGMKRKLSISIALIGGSRVVILDEPSTGVDP CSRRSIW
DVISKNK TARTIILSTHHLDEAEVLSDR IAFLEQGG LRCCGSPFYLKEAFGDGYHLTLTKKKSPNLNANAVCDTM
AVTAMIQSHLPEAYLKEDIGGELVYVLP PFSTKVSGAYLSLLRALDNGMGDLNIGCYGISD TTVEEVFLNLTKE
QKNSAMSLEHLTQKKIGNSNANGISTPDDL SVSSNFTDRDDKILTRGERLDGFG LLLKKIMAILIKRFHHTRRN
WKGLIAQVILPIVFVTTAMGLGTLRNSSNSYPEIQISPSLYGTSEQTAFYANYHPSTEALVSAMWDFPGIDNMCL
NTSDLQCLNKDSLEKWNTSGEPITNFGVCSCSENVQECPKFNYSPPHRTYSSQVIYNLTGQRVENYLISTANEF
VQKRYGGWSFGLPLTKDLRFDITGV PANRTLAKVWYDPEGYHSLPAYLNSLNNFLLRVNMSKYDAARHGIIMYSH
PYPGVQDQE QATISSLIDILVALSILMGYSVTTASFVTVVREHQTKAKQLQHISGXGVTCYWVTNF IYDMVFYL
VPVAFSIGIIAIFKLPAFYSENNLGAVSLLLLLFGYATFSWMYLLAGLFHETGMAFIT YVCVNLF FGIN SIVSLS
VVYFLSKEKPNDPTLEL ISETLKRIFLIFPQFCFGYGLIELSQQQSVLDFLKAYGVEYPNETFEMNKL GAMFVAL
VSQGTMFSLRLLINESLIKKLR LFFRKFNSSHVRETIDEDEDVRAERLRVESGAAEFDLVQLYCLTKTYQLIHK
KIIAVNNISIGIPAGECFGLLG VNGAGKTTIFKMLTGDIIPSSGNILIRN

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FIGURE 1123A

TGGCTCAGTTACTCAAAAAGCTCAAGATGACTGCAACAGGGGTGCCTGTTCATCCCACCACTGGTGATCTCCTGGTG
GGCAGGAACACGCAGCTTATGGCTTCTTCTACCTGTGGGCTGAGCAGAGCCCAGAAATACTGCATCCTCAGTTAC
CTGGAGGGGGGAACAAAATGCTTCATCTGTGACTCTAGATTTCCATATGATCCGTATGACCAACCAACAGCCAC
ACCATTGAGAATGTCAATTGTAAGTTTTGAACCAGACAGAGAAAAGAAATGGTGGCAATCTGAAAATGGTCTTGAT
CATGTGAGCATCAGACTGGACTTAGAGGCATTATTTTCGGTTTCAGCCACCTTATCCTGACCTTTAAGACTTTTCGG
CCTGCTGCAATGTTAGTTGAACGTTCCACAGACTATGGACACAACCTGGAAAGTGTTCAAATATTTTGCAAAAGAC
TGTGCCACTTCCCTTCTAACATCACATCTGGCCAGGCCAGGGAGTGGGAGACATTGTTTGTGACTCCAAATAC
TCGGATATTGAACCTCAACAGGTGGAGAGGTTGTTTTAAAGTTTTGGATCCCAGTTTTGAAATTGAAAACCTT
TATAGCCCCCTACATCCAAGACCTTGTGACATTGACAAACCTGAGGATAAACTTTACCAAGCTCCACACCTTGGG
GATGCTTTTGCTTGGAAAGGAGGCCAAAATGATTCCCTTGATAAATACTACTATGCTCTGTACGAGATGATTGTTCCG
GGAAGCTGCTTTTGCAATGGCCATGCTAGCGAATGTCGCCCTATGCAGAAGATGCGGGGAGATGTTTTGAGCCCT
CCTGGAATGGTTTCACGGTCAGTGTGTGTGTGTCAGCACAAATACAGATGGTCCGAACCTGTGAGAGATGCAAGGACTTC
TTCCAGGATGCTCCTTGGAGGCCAGCTGCAGACCTCCAGGACAACGCTTGAGATCGTGCAGCTGTAACAGCCAC
TCCAGCCGCTGTCACTTTGACATGACTACGTACCTGGCAAGCGGTGGCCTCAGCGGGGGCGTGTGTGAAGACTGC
CAGCACAACTGAGGGGCAGCACTGCGACCGCTGCAGACCCCTCTTCTACAGGGACCCGCTCAAGACCATCTCA
GATCCCTACGCGTGCATTGCTGAGTCCCCGGCTTGTGAATGTGACCCCGATGGGACCATATCTGGTGGCATTGT
GTGAGCCACTCTGATCCTGCCTTAGGGTCTGTGGCCGGCCAGTGCCTTTGTAAAGAGAACGTGGAAGGAGCCAAA
TGCGACCAGTGCAACCCCAACCACTACGGACTAAGCGCCACCGACCCCTGGGCTGCCAGCCCTGCGACTGTAAC
CCCCTTGGGAGTCTGCCATTCTTGACCTGTGATGTGGATACAGGCCAATGCTTGTGCTGTGCATATGTCACCGGA
GCACACTGCGAAGAATGCACGTGTGGATACTGGGGCCTGGGAAATCATCTCCATGGGTGTTCTCCCTGTGACTGT
GATATTGGAGGTGCTTATTCTAACGTGTGCTCACCCAAGAATGGGCAGTGTGAATGCCGCCCACATGTCACCTGGC
CGTAGCTGCTCTGAACAGCCCTGGCTACTTCTTTGCTCCTTTGAATTTCTATCTCTACGAGGCAGAGGAAGCC
ACAACACTCCAAGGACTGGCGCCTTTGGGCTCGGAGACGTTTGGCCAGAGTCCCTGCTGTTACGTTGTTTTAGGA
GAGCCAGTTCCCTGGGAACCCCTGTTACATGGACTGGACCTGGATTGCGCAGGGTTCTCCCTGGGGCTGGCTTGAGA
TTTGCTGTCAACAACATTCCCTTTCCCTGTGGACTTCACCATGCCATTCACTATGAAACCCAGGTATCCTTTAAC
TCACCAGACTGTCCAGATTGTGGTGAACCCCTGGAGGGAGTGAGCACTGCATACCCAAGACTCTACAGTCAAA
GCCTCAGTCTTTTGCCCTTACCAGCGGCTACGAGAATCATGCTGCTTCCACACCCATCTGTTTGAACAGATGT
ACAATATTCCATAGATGTCTATTTTCTCAGCCTTTGCAAGGAGAGTCCCACGCTCATTACATGTCTTGGTGG
CTCTCTTGGCCTTATTCCCCAAATCAATTATTGGAGAATTTCTGCAGCAAGCAGGACTTAGATGAGTATCAGCT
TCACAACTGTGTTGAAATTGCCTCAGCAATGGGACCTCAAGTGCTCCCGGGTGCCTGTGAAAGGCTGATCATCAG
CATGTCTGCCAAGCTGCATGATGGGGCTGTGGCCTGCAAGTGTACCCCCAGGGCTCAGTCGGATCCAGCTGCAG
CCGACTTGGAGGCCAGTGCCAGTGTAACCTCTTGTGGTGGGGCGCTGCTGTGACAGGTGCTCAACTGGAAGCTA
TGATTTGGGGCATCACGGCTGTACCCCATGTCACTGCCATCCTCAAGGATCAAAGGACACTGTATGTGACCAAGT
AACAGGACAGTGCCCCCTGCCATGGAGAGGTTGTCTGGCCGCCGCTGTGATCGCTGCCTGGCAGGCTACTTTGGATT
TCCCAGCTGCCACCCCTTGCCCTTGTAAATAGGTTTTGCTGAACCTTTGTGATCCTGAGACAGGGTCACTTCAATTG
TGGAGGCTTTTACAACCTGGCAGAAACGTGAAAGGTGATTGATGGTTACTATGGAATCCTTCTTCAGGACAGCC
CTGTGCTCCTTGCCCTGTGTCCAGATGATCCCTCAAGCAATCAGTATTTTGCCATTCTGTATCAGAATCTGTG
GAGCTCAGATGTAATCTGCAATTGTCTTCAAGGTTATACGGGTACTCAGTGTGGAGAATGCTCTACTGGTTTTCTA
TGGAAATCCAAGAATTTTACGAGCACCTTGCCAACCATGTGCCTGCAACAACAACATAGATGTAACCGATCCAGA
GTCCTGCAGCCGGGTAACAGGGGAGTGCCTTCGATGTTTGACAACACTCAGGGCGCAAACCTGCCAGCTCTGCAA
ACCAGGTCACTATGGATCAGCCCTCAATCAGACCTGCAGAAGATGCTCCTGCCATGCTTCCGGCGTGAGTCCCAT
GGAGTGTCCCCCTGGTGGGGGAGCTTGCCCTGTGTGACCCTGTCACTGGTGCATGTCTTGTCTGCCGAATGTCAC
AGGCTTGGCCTGTGACCGTTGTGCTGATGGATACTGGAATCTGGTCCCTGGCAGAGGATCATGTGATTGTAACAG
GGCAGGTACCCAGAAGCCCATCTGTGATCCAGACACAGGCATGTGCCGCTGCCGGGAGGGTGTGAGCGGCCAGAG
ATGTGATCGCTGTGCCCGGGGACACAGCCAGGAATCCCTACTTGTCTTCAATGTCACTTGTGCTTTGATCAGTG
GGACCACACCATTTCTTCCCTCTCCAAAGCGGTGCAAGGGTTAATGAGACTGGCTGCTAACATGGAAGATAAAAG
AGAGACCCTGCCTGTCTGTGAGGCAGACTTCAAAGACCTCAGAGGGAACGTGTCTGAAATAGAAAGGATTTTGAA
ACATCCTGTTTTCCCATCTGGGAAATCTTAAAGTCAAGGATTATCATGACTCTGTTAGAAGACAAATCATGCA

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FIGURE 1123B

GCTAAATGAACAACTGAAGCAGTGTATGAATTTCAAGATCTGAAAGATACAATAGAAAGAGCAAAGAATGAAGC
AGACCTCTTACTTTGAAGACCTTCAGGAAGAAATTGATTTGCAATCCAGTGTCTTAATGCAAGCATTGCGGACTC
CTCAGAAAACATCAAGAAATATTATCACATATCATCATCTGCTGAAAAGAAAATTAATGAACTAGTTCCACCAT
TAATACCTCTGCAAATACAAGGAATGACTTACTTACCATCTTAGATACTAACCCTCAAAGGAAACTTGTTCATT
GGAAAGATTAAAGCAGATTAAAGATACCAGATATCCAAATATTGAATGAAAAGGTGTGCGGAGATCCAGGAAATGT
GCCATGTGTGCCCTTGCCCTGTGGCGGTGCTCTCTGCACGGGCCGGAAGGGGCACAGGAAGTGTAGGGGTCCCGG
CTGTACGGCTCCCTGACCCTCTCAACGAATGCCCTCCAAAAGCCCAGGAAGCAAAATCCATTATTTCGTAATTT
GGACAAACAGGTTTCGTGGGTTGAAAAATCAGATCGAAAGTATAAGTGAACAGGCAGAAGTCTCCAAAAACAATGC
CTTACAGCTGAGGGAAAAAAGTGGGAAATATAAGAAACCAAAGTGAAGTCTGAAGAAGAAAACATCAATCTTTTCAT
CAAAAAAGTGAAAAAAGTCTTTTGTAGAGGAAAACGTGCCTCCAGAAGACATCGAGAAGGTTGCGAATGGTGTGCT
TGACATTACCTACCAATTCCATCCCAAAATCTAACCAGTGAAGTTGTCAAAATACAGAAACATATGCAACTCTG
TGAGGATTACAGGACAGATGAAAACAGGTTAAATGAAGAAGCAGATGGAGCCCAAAAGCTTTTGGTGAAGGCCAA
AGCAGCTGAGAAAGCAGCAAAATATTCTATTAAATCTTGACAAAACATTGAACCAGTTACAACAAGCTCAAATCAC
TCAAGGACGGGCAAACTCTACCATTACACAGCTGACTGCCAATATAACAAAAATAAAAAAGAATGTGCTGCAGGA
ATTTGTTGAGCTGAAAAAACAATATGCTATTCTCCAACGTAAGACAAGCACTACAGGACTAACAAAGGAGACATT
AGGAAAAGTTAAACAGCTAAAAGATGCGGCAGAAAAATTGGCTGGAGATACAGAGGCCAAGATAAGAAGAATAAC
AGATTTAGAAAGGAAAAATCCAAGATTTGAATCTAAGTAGACAAGCAAAAGCTGATCAACTGAGAATATTGGAAGA
TCAAGTTGTTGCCATTAAAAATGAAATTGTTGAACAAGAAAAAAATATGCTAGGTGCTATAGCTAGCAGAGTT
AAAGAGCAAAAGCTTGTGCCTTTGTTTCTGGTTCCTGATGTACAAGCCCTGGGGCTCTGTTGAACCTGTGAAAT
ACTGACAATGTCTTCTACCTTCCTTCCCCACACCCTGTCCTTATTAGACACCTGCACAGTGTGGCTGGAGGTTGA
AATGCCACCAGGAAAAATGCCACTTCATAATTGAAAGGGGAAAGTAATGAAATTGTCCTCTGGTTTCAGAACTTTT
CCTCTTACCTTCCTTTCTCTTCCCTNACTTTTNTATNACAGTTTCCATATTACAAGTAGNTATTTAAGTAAGTAC
TCTACTAACTTATAATCATTTTCAGTCAGATAAACCTAAACATTAAATAAATATCTCCAATATTAGGATGGAATAC
ATATGTATGGCATGTACTAGATTGTCCTATATTTTATGTTTATTTGGATTTGCTTTTATTTGTAAATTTATTCTT
TTCTGAATAAACTGCATACAATTCA

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FIGURE 1124

MKPRYPLTHQTVQIVVNPPGGSEHCIPKTLQSKPQSFALPAATRIMLLPTPICLEPDVQYSIDVYFSQPLQGESH
AHSHVLVDSLGLIPQINSLENFCSKQDLDEYQLHNCVEIASAMGPQVLPGACERLIISMSAKLHDGAVACKCHPQ
GSVGSSCSRLGGQCQCKPLVVGRCCDRCTGSDYDLGHHGCHPCHCHPQGSKDTVCDQVTGQCPCHEVSGRRCDR
CLAGYFGFPSCHPCCNRFAELCDPETGSCFNCGGFTTGRNCERCIDGYYGNPSSGQPCRPLCPDDPSSNQYFA
HSCYQNLWSSDVICNCLQGYTGTQCGECSTGFYGNPRISGAPCQPCACNNNIDVTDPECSRVTGECLRCLHNTQ
GANCQLCKPGHYGSALNQTCRRCSCHASGVSPMECPPGGGACLCDPVTGACPCLPNVTGLACDRCADGYWNLVPG
RGSCDCNRAGTQKPICDPDTGMCRCREGVSGQRCDRCARGHSQEFPTCLQCHLCFDQWDHTISSLSKAVQGLMRL
AANMEDKRETLPVCEADFKDLRGNVSEIERILKHPVFPSPGKFLKVKDYHDSVRRQIMQLNEQLKAVYEFQDLKDT
IERAKNEADLLLEDLQEEIDLQSSVLNASIADSSSENIKKYYHISSSAEKKINETSSTINTSANTRNDLLTILDTL
TSKGNLSLERLKQIKIPDIQILNEKVCGDPGNVPCVPLPCGGALCTGRKGHRKCRGPGCHGSLTLSTNALQKAQE
AKSIIRNLDKQVRGLKNQIESISEQAEVSKNNALQLREKLGNI RNQSDSEENINLFIKKVKNFLEENVPPEDI
EKVANGVLDIHLPIPSQNLTDLVKIQKHMQLCEDYRTDENRLNEEADGAQKLLVKAKAAEKAANILLNLDKTLN
QLQQAQITQGRANSTITQLTANITKIKKNVLQEFVELKKQYAILQRKTSTTGLTKETLGKVKQLKDAAEKLADGT
EAKIRRITDLERKIQDLNLSRQAKADQLRILEQDVVAIKNEIVEQEKKYARCYS

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FIGURE 1125

GGTACATAAGATCCATTAGGTTTGAGCTGTGTTGACTACCACTGCTTTTTCTTGGTCTCACTTACGTCTTGGAA
GATGGCTCTGCAGATCCCTGGAGGCTTTTGGGCAGCAGCTGTGACCGTGATGCTGGTGATGCTGAGCACCCCAGT
GGCTGAGGCCAGAGACTTTCCCAAGGATTTCTTGGTCCAGTTTAAGGGCATGTGCTACTTCACCAACGGGACAGA
GCGCGTGCGGGGTGTGGCCAGATACATCTATAACCGCGAGGAGTACGGGCGCTTCGACAGCGACGTTGGGGAGTT
CCAGGCGGTGACCGAGCTGGGGCGGAGCATCGAGGACTGGAACAACCTATAAGGACTTCTTGGAGCAGGAGCGGGC
CGCGGTGGACAAGGTGTGCAGACACAACCTACGAGGCGGAGCTACGCACGACCTTGCAGCGGCAAGTGGAGCCCAC
AGTGACCATCTCCCCATCCAGGACAGAGGCCCTCAACCACCACAACCTGCTGGTCTGCTCAGTGACAGATTTCTA
TCCAGCCCAGATCAAAGTCCAGTGGTTTTCGGAATGACCAGGAGGAGACAGCCGGTGTGTGTCCACCTCCTTCAT
TAGGAATGGTGACTGGACCTTCCAGATTCTGGTGATGCTGGAAATAACTCCCCAGCGTGAGACATCTACACCTG
CCAAGTGGAGCACCCCAGCCTCCAGAGCCCCATCACCTGGAGTGCGGACCTCGAGGGCCTCCACCAGCAGGACT
CCTGCACCTGACTCCTGAGGACTTTTGTCTGGGATTGGTCATCACTCTTCTGTAATGCCACCTGCCCCTGCCCAG
AATTCCTAGCTGCCTGTGTCTCCTGTCCCACTGAGGTCAGAGTCCTACAGTGGCTCATGCAGCCACAGGTCACC
TTCTGTGATCCCCATCCCAAGGCACTGGCGGTGACTCTGCTTCTGCACTGACCCAGAGCCTCTGCCTGTGCACT
GCAAGCTGTGTCTACTCAGGCCCCAAGGGGCATCTCTGTTTCCATTCTCCCCCACAGACCTGTCAAGAGAAGCA
TGACAAACAAAATCATTACCTGACTTTAGTGCTTTTTCCATAATTAAACCTGATTCTGAGTTAAAAAAGATA
AATAATATAGATAAAAAAGGCGCCTGTGAGCCTTTCCACCGGGGATTATTCGGGGCGGGTACTAGGGGGGGGTTAG
AGTTTCGTAATAGTTGTGTGTGCGGTGGCTCTGGGGGGGGCTGAACAAATCCCCGAAGTGGGTGTATTAGGGGGCA
ACGGGGCGTTTTAAACTCGGAGTGGGAAACTGGGTGTTACCAAATAATGCCTTTGGGGTTCCTCTTTGNCAGC
CNATCNINGGAGGAGATGACTGTGGATCTTTGTGCGGTGTAAATTAGGTGTTGAGACATGGATGTTGAGTGTGT
AGCGTGTGTTTGTATAATAGTT

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FIGURE 1126

MALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFTNGTERVRGVARYIYNREEYGRFDSVGEF
QAVTELGRSIEDWNNYKDFLEQERAADVCKVRHNYEAE LR TTLQRQVEPTVTISPSRTEALNHHNLLVCSVTDFY
PAQIKVQWFRNDQEETAGVVSTSFIRNGDWTFQILVMLEITPQRGDIYTCQVEHPSLQSPITLEWRPRGPPAGL
LH

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FIGURE 1127

GTGAAAGAGCAGGTTCTGCTTCTTTGGTGTAGTCCTGAAGCTTCCTAAGAACTTCACATCAGGTGATGGATAGG
AGCAACCCTGTAAAACCAGCCTTAGACTATTTTTCAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGT
AACCAGTTCAAGTTGGAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGC
CAGCTGAAGGTGCTGGGTGCCAACCTCTGGTGGCCGTACCTGATGCACGAACACCCCGCCTACCTGTACTCGTGG
GAGGATGGTGATTGCTCACACCAAAGCCTTGGACCCCTCCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGC
AGCAGACAAGGGGGCTCTGTATGTGGATGTGATCCGTGTGAACGGCTACTACTCTTGGTATCGCAACTACGGGCA
CCTGGAGTTGATTTCAGCTGCAGCTGGCCGCCCAGTTTGAGAATTGGTGTAAAGACATCACAATCCCATTATTTCAGA
GCGCGTATGGAGTGGAAACGCTTGTAGGGTTTACCAGGTAAGCGGTGTTGAACCTTCTGCTTGTGTATTCTCTC
TGGGCAGAGATGCCACTTGCCTCCCCACCATGCCATCTCTGAAGAATATTACAGACCATTTTGGAGCATGGTGA
ATAAGAAATTTTACCTTAGGAGTTTCAGTTGAATAGTCATTTTTATATTTGTGACTGCAAGTCACCTTAGGGGC
TGTACTTCCTTAGTACTGGTAGCATTATTATCCAATGGACTTTTATAGCTTTCATTAGGTTTTCTTTGTTTTTG
TTCTTTAAAGAACGTTTTACTTATCTTAGTATTTTCATTTTTCATCTATATTATGAGGCAGTAAGAGTCTTCTGTT
TTTCCAAAGTTGAGACTGCTTTATATTTATTTTCGATTGTCTACAGCTGTAGTGTTCATAACATTAGCCACTAGC
CACATGTGGTTATTTAAATAAGATAAAATAAAAAATTGGCCGGGCGTGGTGGGTCACGCCGTAATCCCAGCACTT
TGGGAGGCCGAGGCGGGCAGATCATTAGGTCAGGAGATCGAGACCATCCTTACTAAGACGGTGAACCCCATCTC
TATTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGCAGTCCCAGCTACTCAGGAGGCTGAGGCAG
GAGAATGGCGTGAACCTGGGAGGCAGAGTTTGCAGTGAGCCGAGATGGCGCCACTGCACTCCAGCCTGGGGACAG
AGCGAGACTCCATCTCAAAA

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FIGURE 1128

MDRSNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL
YSWEDGDGCSHQSLGPLPACDLCDQLHLRSRQGGSVCGCDPCERLLLLVSQLRAPGVDSAAAGRPV

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FIGURE 1129A

GCCCCAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCCGGCCG
GACCCGGGCCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCCTGCTGCCCGGCCGAGGACCCACCCCGCCTGCCGCCCCG**ATG**CTTGACG
TGGGGCCCCGCATGGACAGGGATTACCCGCAGCATGAACCCCGCCGCGGGCAGCCTCCTGTACAGCCCGCCGC
CCCTGCAGAGCGCCATGCTGCACTGCCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCCGTTTCATGAGCTCCGCCTCCTTCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTTGCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTCGGACATCGTGGACACGCCCCGACTTCTGCGCGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGAGGCTTCGAGGACTTTCTGCCCTCCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCTGCCAGCAACACGAGGTCTGCTCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCCGCGTGGGCAAAGGCCGACGGTGGCCGGAGTCATCCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGGTGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTTGAGGGCGTCATCGTGTTCGACGAGTGTACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCCG
TGCTAGACCTGCAGAACAAGCTGCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACTTTGAGGAGTCTCTGCACG
CCATCGAGAAGAGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGTGGCCCCAGCCTTCGAGTGCCTCTACA
ACCGCGCAGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTCCGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGCCTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCTGCTCTCGGCCGCTGAAGGCGTGT
TCCTGTCTGCTAATTGAGAACCACTTCCGTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCCTGGCCTGGACAGCGACTTCAACTCCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTCTATCGTTGATGCAGTCGGGCTCCCCAGTGACGACCGGGGATCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCTTGAGCGGGTGGAGCGGTGAAGCAGGATCTGCTGGACAAAGTGCGCCGGCTGGGCGGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACAGCTGGGCGGGCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCGGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTTCGCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCCC
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTTGAGAACAAGTATGGCACCC
GGGCCCTGCAGTGTGTCTCACCACCATCCTGAGCCAGACTGAGAACAAGTGCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATACCAAGTTCCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAATGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTTGGCTC
CCGGGACCCGACGAGACGGGACGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGTGACGGGCCCCATGACGGCTTCTACCTCTCCTACAAGGTCCGCGGTAACAAGCCCA
GCTGCCTGCTGGCGGAGCAGAACCGCGGCCAGTTCTTACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCACCGGGTACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

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FIGURE 1129B

GCTACGCTTTGTCGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTGATGGCCGACGTGAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCCCCGCGCCGCTGGCGCTGCCTTGCGGCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCTGTCCGCTGGGCACCCCCGACGCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCCTTCCCCGGCGCCCAGGCTCCTCTCTTGACACGCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTCTCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCACTGCTTTCAGCGCCCGACCCGGGCCCCACCTGGTCAGCCCTGGCGGGGCCCACTCAGGACAG
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCTAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCCCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCCGCTCACCTCTCCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

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FIGURE 1130

MLAVGPAMDRDYPQHEPPPAGSLLYSPPPLQSAMLHCPYWNTFSLPPYPAFSSDSRPFMSSASFLGSQPCPDTSY
APVATASSLPPKTCDFADQSSSYFEDFSNISIFSSSSVDSLSDIVDTPDFLPADSLNQVSTIWDDNPAPSTHDKLFQ
LSRPFAGFEDFLPSHSTPLLVSYQEVSQSQPEEEDAEAEELGHTTETYADYVPSKSKIGKQHPDRVETST
LSSVPPPDITYTLALPSDSGALSALQLEAITYACQQHEVLLPSGQRAGFLIGDGAGVGKGRTVAGVILENHLRGR
KKALWFSVSNDLKYDAERDLRDIEATGIAVHALSKIKYGDTTTSEGVLFATYSALIGESQAGGQHRTRLRQILDW
CGEAFEGVIVFDECHKAKNAGSTKMKGAVLDLQNKLPARVVYASATGASEPRNMIYMSRLGIWGEFTPFRNFEE
FLHAIEKRGVGAMEIVAMDMKVSGMYIARQLSFSGVTFRIEEIPLAPAFECVYNRAALLWAEALNVFQQAADWIG
LESRKSLWGQFWSAHQRFFKYLCIAAKVRRRLVELAREELARDKCVVIGLQSTGEARTREVLGENDGHLNCFVSAA
EGVFLSLIQKHFPSTKRKRDRGAGSKRKRPRGRGAKAPRLACETAGVIRISDDSSSTESDPGLDSDFNSSPESLV
DDDVVIVDAVGLPSDDRGSLLCLLQRDPHGPVLERVERLKQDLLDKVRRLGRELVPNTLDELIDQLGGPQORVAEM
TGRKGRVVSRRPDGTVAFESRAEQGLSIDHVNLRKQRFMSGEKLVAI I SEASSSGVSLQADRRVQNQRRRVHMTL
ELPWSADRAIQQFGRTHRSNQVSAPEYVFLISELAGERRFASIVAKRLESLGALTHGDRRATESRDL SKYNFENK
YGTRALHCVLTTILSQTENKVPVPQGYPGGVPTFFRDMKQGLLSVGIGGRESRNGCLDVEKDCSITKFLNRILGL
EVHKQNALFQYFSDTFDHLIEMDKREGKYDMGILD LAPGIEEIYEESSQVFLAPGHPQDGGQVVFYKISVDRGLKW
EDAFAKSLALTGPYDGFYLSYKVRGNKPSCLLAEQNRGQFFTVYKPNIGRQSQLEALDSLRRKFHRVTAEAEAKEP
WESGYALSLTHCSHSAWNRHCRLAQEGKDCLOGLRLRHHYMLCGALLRVWGRIAAMADVSSSSYLQIVRLKTKD
RKKQVGIKIPEGCVRRVLQELRLMDADV KRRQAPALGCPAPPAPRPLALPCGPGEVLDLTYSPPAEAFPPPPHFS
FPAPLSLDAGPGVVPLGTPDAQADPAALAHQGC DINFKEVLEDMLRSLHAGPPSEGALGEGAGAGGAAGGGPERQ
SVIQFSPPFPGAQAPL

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FIGURE 1131

AAGAACCAAATGTTATAAATATTTGCTGAAGTTTATACATTTTAATCTGCATTAAGGTAATGGTTAGTTGGTCAA
TGCTGCCTCTGCCTCAGTCTGCAGCGAGAACATTGTGTTTTTCATTTGGTAAATACAGTTGAGCATCCACCGGNGT
NNCAAGTGGCTGGTATTAGGTGCTAAGGATGCAGGGGTGAACAAAACAGGCCCTGCCTCCATGCAATTCTCATT
CTCTGGGTGGCACAGTTTTATGCAAGTTATCACATGTGAAAGAATTTATAGTTTTTATTATGCAAGTTTTCAAAT
AAATCCAATTGCTGTTATCTTTTGTTTTTCATGGAATATCTCGCATCTCAGAACACAGTTTGGGAATCATATTTT
ATTTAGTGTTTTCAGATGCTATCTATTATATCTAAGATATTTACATTTAGCCATTCGTTTTATAAAAACTCCA
GGCAAACCTCAGCTGGACTTTTCTTGCTTTAATAACAGCTTTATTGAGGATACAATTCACATATCTACGAAATTCT
TTTTAAAAATTTTACACGTTTCAGGCCGGGCGCGGTGGCTCATGCC

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FIGURE 1132

MQFSFSGWHSFMQVITCERIYSFYASQINPIAVIFCFSWNISHLRTQFGNHILFSVFRCYLLYLRYFTFSHSF
YKKLQANSAGLFLNNSFIEDTIHISTKFFLKILHVQAGRGGSC

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FIGURE 1133

GGCACGAGGGGAAGACCTCCTGTCTATCAGGCCCTCCCCATGGCTTTAGAGACGATCTGCCGACCCTCTGGGAG
AAAATCCAGCAAGATGCAAGCCTTCAGAATCTGGGATGTTAACCAGAAGACCTTCTATCTGAGGAACAACCAACT
AGTTGCCGGATACTTGCAAGGACCAATGTCAATTTAGAAAGAAAAGATAGATGTGGTACCCATTGAGCCTCATGC
TCTGTTCTTGGAATCCATGGAGGGAAGATGTGCCTGTCTGTGTCAAGTCTGGTGATGAGACCAGACTCCAGCT
GGAGGCAGTTAACATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAG
TGGCCCCACCACCAGTTTTGAGTCTGCCGCCTGCCCCGGTTGGTTCTCTGCACAGCGATGGAAGCTGACCAGCC
CGTCAGCCTCACCAATATGCCTGACGAAGGCGTCATGGTCACCAAATCTACTTCCAGGAGGACGAGTAGTACTG
CCCAGGCCTGCCTGTTCCCATTTCTTGATGGCAAGGACTGCAGGGACTGCCAGTCCCCCTGCCCCAGGGCTCCCG
GCTATGGGGGCACTGAGGACCAGCCATTGAGGGGTGGACCCTCAGAAGGCGTCACAACAACCTGGTCACAGGACT
CTGCCTCCTCTTCAACTGACCAGCCTCCATGCTGCCTCCAGAATGGTCTTTCTAATGTGTGAATCAGAGCACAGC
AGCCCCTGCAAAAGCCCTTCCATGTCGCCTCTGCATTAGGATCAAACCCCGACCACCTGCCAACCTGCTCTC
CTCTTGCCACTGCCCTCTTCTCCTCATTCCACCTTCCCATGCCCTGGATCCATCAGGCCACTTGATGACCCCCA
ACCAAGTGGCTCCACACCCTGTTTTACAAAAAAGAAAAGACCAGTCCATGAGGGAGGTTTTTAAGGGTTTGTGG
AAAATGAAAATTAGGATTTTATGATTTTTTTTTTTTTCAGTCCCCGTGAAGGAGAGCCCTTCATTTGGAGATTATGT
TCTTTCGGGGAGAGGCTGAGGACTTAAATATTCCTGCATTGTGAAATGATGGTGAAAGTAAGTGGTAGCTTTT
CCCTTCTTTTTCTTCTTTTTTTGTGATGTCCCAACTTGTAATAATTAAGTTATGGTACTATGTTAGCCCCATA
ATTTTTTTTTTCTTTTAAACACTTCCATAATCTGGACTCCTCTGTCCAGGCACTGCTGCCCAGCCTCCAAGCT
CCATCTCCACTCCAGATTTTTTACAGCTGCCTGCAGTACTTTACCTCCTATCAGAAGTTTCTCAGCTCCCAAGGC
TCTGAGCAAATGTGGCTCCTGGGGGTTCTTTCTTCTCTGCTGAAGGAATAAATTGCTCCTTGACATTGTAGAGC
TTCTGGCACTTGGAGACTTGTATGAAAGATGGCTGTGCCTCTGCCTGTCTCCCCACCAGGCTGGGAGCTCTGCA
GAGCAGGAAACATGACTCGTATATGTCTCAGGTCCCTGCAGGGCCAAGCACCTAGCCTCGCTCTTGGCAGGTACT
CAGCGAATGAATGCTGTATATGTTGGGTGCAAAGTTCCCTACTTCTGTGACTTCAGCTCTGTTTTACAATAAAA
TCTTGAAATGCCTAAA

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FIGURE 1134

MALETICRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGPVNLEEKIDVVP IEPHALFLGIHGGKMCLS
CVKSGDETRLQLEAVNITDLSENRKQDKRFAFIRSDSGPTTSFESAACPGWFLCTAMEADQPVSLTNMPDEGVMV
TKFYFQEDE

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FIGURE 1135

GCCATTCTCTCACATCCCGTGC GGTCAGGAAGCCCTTCCTGAACTCTGACTTCAGTTCTTGCTGCGGTTTCTGCC
CATTTTTTTCATATCCTCTGACAGCTGCGAGGTCACTCTGCTCTGGCTTTTCTCCAAGCAGAACAAGTGGGGGC
TCTGGAAAGGTTAAGGGACCTCAGTGGCCACCATTATACTTTGCATCTTTCTGAGAAGTGAGAGTTGAAAGGGA
AGCAGGAAGGCCCATGGTCAGATTGAAGGAAGGACTTTTTAGTTTTCTTTTTTTTTTTTTTTTGAATGGAGTCTCGC
TCTGTCAATTCAGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGCAGCCTCCACTTCCTGGGTTCACATGATTC
TCCTGCCTCAGCCTCCCAAGTAGCTGAGACTACAGGCACATGCCACTACACCCAGCTAACTTTTGTATTTTTAGT
AGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCAAAGTCTAAGTCAAGTGAATCTGCTCCCTCAGCCTC
CCAAAGTGCTGGGATTACCGGTATGAACCACCACAACCTGCCAGGAATTTTTAGTTTTTAGCTTTTGCAGGAGAC
TTCAAGGAAAGGAGACATTCTCTGTCCAGGAAACGGGTAAGGGGACCATTCTGCATTGCTGGTTTCCCTCTT
GGCAGGGTGGGCATGAGGCATCACTGTTCTGCTCCCTCACTCCTGCTCCTCATGCTCAGCCTGCCAGCTCGGCC
TCAACTTTGTGTGTCTAAAGTGGAACTGAATAGTAGCTGTGAGAAGATAGGAAAGAGGTAGTGCCAATCTCCTTG
CCCAGATCATAAATCCAGACTCAGCAGGGTAACCACATGGGCAAGCACAAAGGTAGGTGCTTGGGGAAAGGGGAAG
TAATTGGCATTCTGTGTGATACCAAGGAGACCATTGGATTGGCTTCTACCAAAGAGAATGGAGAATTGGTTG
ACCTAAATGGAACCACTCCCTTTAAGTAAGGGGAGGAAAGGGGGTCTGGAAGATGGCCCTCTTCCACCACCTA
GATCATAGCTTGAAGTGAAGCCAAGGACAGAGTGTGCCCCCTTCGGCATTACTGATGTGCCCTCTTTAAATCA
TGATGTTATCTAACCCAAACCCAGACCCAGGACCTAGTCACAGCTCCAACCTACACTTCCTATTAATCTTAAAC
AAAGCGAAACAAACACAAAAAGATATCAGCATTGTAGCCTCCAATCTGAGCCCATTCCCTTCTCTGGCTACCAT
ACCTCCTTCTCCTATATGATACCATCACTACTTTGTTCAATTATCCAGTCTAGACCTGCATCTTGAGGCCACAC
CCAGCCTTCTCACTCCCCACACCCCTCTTCTCTCTCACTGCTCCTTCCTGGTCTCTTCTCATCTGGCCCCACC
TCTAAGGAGTCTCCTGCTTCTGGGTGGCTTGGAAAACAGACTATCCCCCTCCTAGTGAAGGGAGTGGGTAG
GGGTTTCAGCCCCACCCTCAGGAAGATGCGTCTTCCCTGTCTCTGCTCTGTGGTACTTCCTCTCTGGCTGATTT
AGCAAACAGCACCTAGACCTGGGGCCAGGCCTTTGGCAGTGGGACAGATCCAGGGATAGGCTACACCACCCTGCC
CTGACCCTGGGATTGGCATCAGCTTCCAACAGTTCTTGCCAAAGCTTGTAAGTCTCCCGACGGCCATGAACAC
TACATCTTCTGCAGCACCCCCCTCACTAGGTGTAGAGTTCACTCTCTGCTGGCTATCATCCTGCTGTCAGTGGC
GCTGGCTGTGGGGCTTCCCGGCAACAGCTTTGTGGTGTGGAGTATCCTGAAAAGGATGCAGAAGCGCTCTGTAC
TGCCCTGATGGTGTGAACCTGGCCCTGGCCGACCTGGCCGTATTGCTCACTGCTCCCTTTTTCTTCACTTCCT
GGCCCAAGGCACCTGGAGTTTTGGACTGGCTGGTTGCCGCTGTGTCACTATGTCTGCGGAGTCAGCATGTACGC
CAGCGTCTGCTTATCACGGCCATGAGTCTAGACCGCTCACTGGCGGTGGCCCCGCCCTTTGTGTCCAGAAGCT
ACGCACCAAGGCGATGGCCCGGCGGGTGTGGCAGGCATCTGGGTGTTGTCTTTCTGCTGGCCACACCCGTCTT
CGCGTACCGCACAGTAGTGCCCTGGAAAACGAACATGAGCCTGTGCTTCCCGCGGTACCCAGCGAAGGGCACCG
GGCCTTCCATCTAATCTTCGAGGCTGTACGGGCTTCCCTGCTGCCCTTCCCTGGCTGTGGTGGCCAGCTACTCGGA
CATAGGGCGTTCGGCTACAGGCCCGGCGCTTCCGCGCAGCCGCCGACCCGGCCGCTGGTGGTGTCTCATCATCTT
GACCTTCGCCGCCCTTCTGGCTGCCCTACCACGTGGTGAACCTGGCTGAGGCGGGCCGCGCGCTGGCCGGCCAGGC
CGCCGGGTTAGGGCTCGTGGGGAAGCGGCTGAGCCTGGCCCGCAACGTGCTCATCGCACTCGCCTTCTGAGCAG
CAGCGTGAACCCCGTGTGTACGCGTGCGCCGGCGGCGGCTGCTGCGCTCGGCGGGCGTGGGCTTCGTGCGCAA
GCTGCTGGAGGGCACGGGTTCCGAGGCGTCCAGCACGCGCGCGGGGGCAGCCTGGGCCAGACCGCTAGGAGCGG
CCCCGCCGCTCTGGAGCCCGGCCCTTCCGAGAGCCTCACTGCCTCCAGCCCTCTCAAGTTAAACGAAGTGAAGTGA
GGCCTGGTGGAGGAGGCGCACTTCTCTGCGAGAATGCTAGCTCTGAGCCAGTTCAGTACCTGGAGGAGGAG
CAGGGGCGTGGAGGGCGTGGAGGGCGTGGAGGCGGGAGTGGAGTGGAGAAGAGGGAGAGATGGAG
CAAAGTGAGGGCCGAGTGAGAGCGTGTCCAGCCTGGCTCCACAGGCAGCTTTAACCATTAAACTGAAGTCTG
AA

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FIGURE 1136

MNTTSSAAPPSLGVEFISLLAIILLSVALAVGLPGNSFVVWSILKRMQKRSVTALMVLNLALADLAVLLTAPFFL
HFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVARPFVSQKLRTKAMARRVLGIWVLSFLLAT
PVLAYRTVVPWKTNMSLCFPRYPSEGHRAFHLLIFEAVTGFLLPFLAVVASYS DIGRRLQARRFRRSRRTGRLVVL
IILTFAAFWLPYHVVNLAEAGRALAGQAAGLGLVGKRLSLARNVLI ALAFLSSSVNPVLYACAGGGLLRSAGVGF
VAKLLEGTGSEASSTRGGSLGQTARSGPAALEPGPSESLTASSPLKLNELN

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FIGURE 1137

GTGGGCGGACCGCGCGGCTGGAGGTGTGAGGATCCGAACCCAGGGGTGGGGGTGGAGGCGGCTCCTGCGATCGA
AGGGGACTTGAGACTCACC GGCCGCACGCCATGAGGGCCCTGTGGGTGCTGGGCCTCTGCTGCGTCTGCTGACC
TTCGGGTTCGGTCAGAGCTGACGATGAAGTTGATGTGGATGGTACAGTAGAAGAGGATCTGGGTAAAAAGTAGAGAA
GGATCAAGGACGGATGATGAAGTAGTACAGAGAGAGGAAGAAGCTATTGAGTTGGATGGATTAAATGCATCACAA
ATAAGAGAACTTAGAGAGAAGTCGGAAGGTTTGCCTTCCAAGCCGAAGTTAACAGAATGATGAAACTTATCATC
AATTCATTGTATAAAAAATAAGAGATTTTCTGAGAGAAGTGAATTCAAATGCTTCTGATGCTTTAGATAAGATA
AGGCTAATATCACTGACTGATGAAAATGCTCTTTCTGGAAATGAGGAAGTAAACAGTCAAAATTAAGTGTGATAAG
GAGAAGAACCTGCTGCATGTCACAGACACCGGTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACC
ATAGCCAAATCTGGGACAAGCGAGTTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTCAACTTCTGAA
TTGATTGGCCAGTTTGGTGTGCGTTTTCTATTCCGCTTCTTGTAGCAGATAAGGTTATTGTCACTTCAAAACAC
AACAACGATACCCAGCACATCTGGGAGTCTGACTCCAATGAATTTTCTGTAATTGCTGACCCAAGAGGAAACACT
CTAGGACGGGGAACGACAATTACCCTTGTCTTAAAAGAAGAAGCATCTGATTACCTTGAATTGGATACAATTAAA
AATCTCGTCAAAAAATATTCACAGTTCATAAACTTTCTATTATGTATGGAGCAGCAAGACTGAACTGTTGAG
GAGCCCATGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAGAAGAATCTGATGATGAAGCTGCAGTAGAGGAAGAA
GAAGAAGAAAAGAAACCAAAGACTAAAAAGTTGAAAAAAGTGTCTGGGACTGGGAAGTTATGAATGATATCAAA
CCAATATGGCAGAGACCATCAAAAGAAGTAGAAGAAGATGAATACAAAGCTTTCTACAAATCATTTTCAAAGGAA
AGTGATGACCCCATGGCTTATATTCACCTTTACTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCC
ACATCTGCTCCACGTGGTCTGTTTGACGAATATGGATCTAAAAAGAGCGATTACATTAAGCTCTATGTGCGCCGT
GTATTCATCACAGACGACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGAT
GATCTCCCCTTGAATGTTTTCCGCGAGACTCTTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGTT
CGTAAAAACGCTGGACATGATCAAGAAGATTGCTGATGATAAATACAATGATACTTTTTTGAAAGAATTTGGTACC
AACATCAAGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGTCTTGCTAAACTTCTTAGGTTCCAGTCTTCT
CATCATCCAAGTACATTACTAGCCTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAAGACAAAATCTACTTC
ATGGCTGGGTCCAGCAGAAAAGAGGCTGAATCTTCTCCATTTGTTGAGCGACTTCTGAAAAAGGGCTATGAAGTT
ATTTACCTCACAGAACCTGTGGATGAATACTGTATTACAGGCCCTTCCCGAATTTGATGGGAAGAGGTTCCAGAAT
GTTGCCAAGGAAGGAGTGAAGTTCGATGAAAGTGAGAAAAGTAAAGGAGAGTCGTGAAGCAGTTGAGAAAGAATTT
GAGCCTCTGCTGAATTGGATGAAAGATAAAGCCCTTAAGGACAAGATTGAAAAAGGCTGTGGTGTCTCAGCGCCTG
ACAGAATCTCCGTGTGCTTTGGTGGCCAGCCAGTACGGATGGTCTGGCAACATGGAGAGAATCATGAAAGCACAA
GCGTACCAAAACGGGCAAGGACATCTCTACAAATTACTATGCGAGTCAGAAGAAAACATTTGAAATTAATCCCAGA
CACCCGCTGATCAGAGACATGCTTCGACGAATTAAGGAAGATGAAGATGATAAAACAGTTTTTGGATCTTGCTGTG
GTTTTGTTTGAACAGCAACGCTTCGGTCAGGGTATCTTTTACCAGACACTAAAGCATATGGAGATAGAATAGAA
AGAATGCTTCGCCTCAGTTTGAACATTGACCCTGATGCAAAGGTGGAAGAAGAGCCCGAAGAAGAACCTGAAGAG
ACAGCAGAAGACACAACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAAGAAGAA
GAAACAGCAAAGGAATCTACAGCTGAAAAAGATGAATTGTAAATTATACTCTCACCATTTGGATCCTGTGTGGAG
AGGGAATGTGAAATTTACATCATTTCTTTTTGGGAGAGACTTGTTTTGGATGCCCCCTAATCCCCTTCTCCCCTG
CACTGTAAAAATGTGGGATTATGGGTACAGGAAAAAGTGGGTTTTTTAGTTGAATTTTTTTTAACATTCCTCATG
AATGTAAATTTGTACTATTTAACTGACTATTCTTGATGTAAATCTTGTCATGTGTATAAAAAATAAAAAAGATCC
CAAT

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FIGURE 1138

MRALWVLGLCCVLLTFGSVRADDEVVDVGTVEEDLGKSREGSRTDDEVVQREEEAIQLDGLNASQIRELREKSEK
FAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALSGNEELTVKIKCDKEKNLLHVTD
GVGMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYSAFLVADKVIVTSKHNNDTQHIWES
DSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVKKYSQFINFPIYVWSSKTETVEEPMEEEEAAK
EEKEESDDEAAVEEEEEKKPKTKKVEKTVWDWELMNDIKPIWQRPSKEVEEDEYKAFYKFSKESDDPMAYIHF
TAEGEVTFKSILFVPTSAPRGLFDEYGSKKSDYIKLYVRRVFITDDFHDMPKYLNFVKGVVDSDDLPLNVSRET
LQQHKLLKVIRKKLVRKTLDMIKKIADDKYNDTFWKEFGTNIKLGVIEDHSNRTRLAKLLRFQSSHPTDITSLD
QYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLKKGYEVIYLTPEVDEYCIQALPEFDGKRFGQNVAKEGVKFDE
SEKTESREAVEKEFEPLNWMKDKALKDKIEKAVVSQRLTESPCALVASQYGWSGNMERIMKAQAYQTGKDIST
NYYASQKKTFEINPRHPLIRDMLRRIKEDDDKTVLDLAVVLFETATLRSGYLLPDTKAYGDRIERMLRSLNID
PDAKVEEPEEEPEETAEDTTEDTEQDEDEEMDVGTDEEEETAKESTA EKDEL

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FIGURE 1139

CTAACCCAGAAACATCCAATTCTCAAACCTGAAGCTCGCACTCTCGCCTCCAGCATGAAAGTCTCTGCCGCCCTTC
TGTGCCTGCTGCTCATAGCAGCCACCTTCATTCCCCAAGGGCTCGCTCAGCCAGATGCAATCAATGCCCCAGTCA
CCTGCTGTTATAACTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCA
AGTGTCCCAAAGAAGCTGTGATCTTCAAGACCATTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAGAAGTGGG
TTCAGGATTCCATGGACCACCTGGACAAGCAAACCCAAACTCCGAAGACTTGAAACTCACTCCACAACCCAAGA
ATCTGCAGCTAACTTATTTTCCCCTAGCTTTCCCAGACACCCTGTTTTATTTTATTATAATGAATTTGTTTGT
TGATGTGAAACATTATGCCTTAAGTAATGTTAATTCTTATTTAAGTTATTGATGTTTTAAGTTTATCTTTCATGG
TACTAGTGTTTTTTAGATACAGAGACTTGGGGAAATTGCTTTTCCTCTTGAACCACAGTTCTACCCCTGGGATGT
TTTGAGGGTCTTTGCAAGAATCATTAAACAAAGAATTTTTTTTAACATTCCAATGCATTGCTAAAATATTATTG
TGAAATGAATATTTTGTAACCTATTACACCAAATAAATATATTTTTGTACAAAAAAAAAAAAA

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FIGURE 1140

MKVSAAALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEIC
ADPKQKWWQDSMDHLDKQTQTPKT

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FIGURE 1141

ACAAACTACCCATTGGAAACACATGCAAAATCACTCAGTAGGGATACTCTCCTAACCCCTGGGCAAGTGAGGTCTT
CTTGCAGTAAATAGTTTCCACTGAGGATGGACTTAGAATGAAGCTACCTTGAGGGGACACGTAGGCTACTAGTAT
TCAGGAACAACCTGCCAGAGACAATGCAGGAAGTGTGTGTGAAATGACCCAAAAGATAAGAGGGGTAGAGAAACCC
TAATGGAAGGACAGATAGTGTGAATAAAGGTAGATTCTGAAAAGAATGAGCTAGCACATTGTGTAAAGATGAGGA
GAGAATTAGGGCTCTGGAGGAGAGATCTGAGGAAACCACCCAGAATATAGCACAGAGAGATACAAAGAAGAAGAA
TTTGGATGAGTCATGAAAAGCTTGGAGGACAGGCTGAGAAGGTCCCGCAGTGTCTAACTGAATTCTAGAAGGAAA
GGCTAGGGAGACTGGAATAGAGGCCATATGTGGAGGAATGTGGGTGAGAACTTGCTAACTGAGGAAAAACACTC
TTCCCAGGTGGAAGAGGCACACTGAGTTCAGAGTAGTGATGGTAAATAACAACCACATCCACCACTAGACACTC
TTTGGTGAACTATAGGGTATTAAAGACAAAGAGAAAAATTCTAAAAGCAGACTGGGACAACAAATCTGTATTTGT
AGCAGGAAAAAGCATGAGGTTTCAAGTTTTGACTGTACTGCTTGCTGCCTGTGTCATCTTAAGTAGGTCACCTACC
TGCTTCGAGCCTCAGAGGACATCTGTCATTGGCTAACTGGGAGTAGAAGTGGCTAATAACAAGAACAATGACTAC
CACACGAGGTTTTGTGAGCCCTGAAATATTTCCAGAGAATAAATGTAAAAGCATTTTAAGTC

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FIGURE 1142

MTTTRGFVSPEIFPENKCKSIL

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FIGURE 1143

GGCACGAGGGGTCCACCCAGTGCTTGCGGGCTCGCGGGCCGGGCGGCCTGGGCTGCAATCAATGCGGCTTTGTCT
GGGACGCCCACATCCCAGAGGCCATTCCCGGGTCGGCAAATCGGAGCGCGGCCGGGGCGCGGGGGTGAGATAA
GCGGCCATGTGATCCCACCTGGGCTGGAAGGGGAGGGGCGCCAGGTGAGGCGGCGGCCGGGCGGGGCGCGGGCGGC
CACGCGGGGCTCCTGCAGCATGGCTGTGAGCAGGAAGGACTGGTCCGCGCTGTCCAGCCTTGCCCCGCAGAGGAC
TCTGGAGGATGAGGAGGAACAGGAGCGCGAGCGCAGGCGGGCACCACAACCTGAGCTCCACCACGGACGATGA
GGCTCCCAGGCTCAGCCAGAATGGAGACCGGCGAGGCTCTGCTTCTGAGAGACTACCGAGCGTGGAAGAAGCAGA
GGTGCCCAAGCCACTGCCCCAGCCTCCAAAGATGAGGACGAGGACATCCAGAGCATCCTCAGAACACGGCAGGA
GCGGAGGCAGAGGCGGCAGGTGGTGGAGGCTGCACAGGCCCCATCCAGGAGAGGCTGGAGGCAGAGGAGGGGAG
GAACAGCTTGAGCCCTGTGCAGGCCACACAGAAACCCCTAGTCTCCAAGAAGGAAGTGGAAATCCCACCTCGCCG
GAGACTGAGTCGGGAACAGCGGGGCCCTGGGCCCTGGAGGAGGAGAGCTTGGTGGGCAGGGAGCCAGAAGAGAG
GAAGAAAGGGGTTCAGAAAAGTCCCCAGTCTTGGAGAAGTCTCCATGCCAAAGAAGACGGCACCTGAAAAGAG
CCTGGTCTCCGATAAAACCTCCATCTCTGAGAAGGTGCTGGCCTCAGAGAAGACATCTCTATCAGAGAAGATAGC
AGTGTCAGAGAAAAGAAACAGCTCAGAGAAGAAGTCTGTTCTAGAAAAAACAGTGTCTCTGAGAAAGTCGCTGGC
CCCAGGGATGGCACTGGGCTCAGGAAGGAGGCTGGTGTCTGAGAAAGCTTCCATCTTTGAGAAAGGCACTGGCCTC
AGAGAAGAGCCCAACTGCAGATGCTAAGCCGGCCCCAAAGAGGGCCACAGCCTCAGAGCAGCCCCTGCGCAGGA
GCCGCCAGCCTCTGGGGGAAGCCAGCCACCACCAAGGAGCAGAGAGGAAGGGCCCTCCCTGGGAAGAACCTGCC
CTCTTTGGCAAAGCAGGGGGCTTCAGACCCTCCGACTGTGGCCTCCCGCCTCCACCCGTCACACTCCAGGTGAA
AATCCCCAGCAAGGAGGAAGAGGCAGATATGTCTCACCCACACAGCGAACCTACAGCAGCTCCCTCAAACGCTC
CAGCCCCAGGACCATCTCCTTTGGATGAAACCCAAAGAAAGAAAACCTCGGAAACAACCTAACTCGCAGTGCCAG
CATGAAGCTCCCAGACAACACAGTGAAGTTGGGAGAGAAGCTGGAGAGATACCACACGGCCATACGGAGATCAGA
ATCTGTCAAGTCTCGGGGTCTGCCTTGCACTGAGTTATTCTGTGGCTCCTGTGGGTGTAGCCAGCAAGCGCCACCT
CTTTGAGAAGGAACTGGCGGGCCAGAGCCGAGCAGAACCAGCCTCCAGCCGGAAGGAGAACTTGAGGCTCTCAGG
GGTTGTGACATCAAGGCTCAACCTGTGGATCAGCAGGACCCAGGAATCTGGAGATCAGGACCCCCAGGAGGCACA
GAAAGCATCATCTGCAACCGAGAGGACTCAGTGGGGACAGAAATCTGACTCCTCGCTGGACGCTGAGGTGTGACA
AGCCCCGCAAGACAGACCTGCAAGTCTTCGTCTCAAGGGACCTCCCTCATGCCAGGCCCCTGCTCTCACAGCA
GCACCCTTTCTCTCATTGTCCCTGTTCCCTTTTTTGCTGTGGATCTGTTTGGCCAGGGTCCCTGGGGTCAGGAA
TATTTGCAAGACTCAGCCAGCTCCTTCCCAGCCAGCCTCTTGGGGCTGGGACTTTCTCACCTGCGGCAGGCAC
AACAGATGCTGGGACCCAGTCTCTGCCAGGTACAGCACAAGTGCACATCAGCACTATGGGGCCTATGTCTGCTG
CCAGAGACCTCTGCTCCTTCTGCTCACATCCACAGTCAGGGCACGGCGCCCCCTCAAGAACTCCAGAGTCACCTG
TCTCATCGGCTCCCAGCAAGTGCTCTTTGTCTATGATGTCCCCCTTCTCTGAGGCCTGGACCCACCATCTTTG
TCCCTGGGGCCTGCTCCCAGCCACTGAGGCGCGCTCTGGCCAGGGGAGAAGGAGCTGCCGTGCGTCTTCCCTGTG
CCCCGTCTCCCTGCTTGGTTCTCCCTCCCTTCCCTGGCCGGCTGCCATGGCCAGGAGCTAAGTGCCTTTTTGTG
TGCAACCACTTACCCTTTCTCTGAAAAACCTGTTCTCAGGAAGGATCTGATAAACTCATTACTCTCAGGTGTAA
GAGACTGATGAGACCTTAGAAGCGAATTCCTCTCTGGAGGCCTTGCTTTCTAGCAGAGGTCACCTGAAGTGTGTG
AGGAGGATCATCATTTTCTCATCCCCCTCTTCTCACATTAAGGTGGTGGCTTGCCACTCAGCAGTCCTAGCTT
GGTACTGGGAACTGCCACATACAGGGCCAGGCCTACCCTCCTTCCCCACAAGCCCCCTCAACCCCCACCCCCA
TGCTCTGGACCTCATGGCTCCTATGAGCTTGAGCATGGTGAACCATCAGAGAATCTAGAACCAACCAAGCTAGG
AACATCAGCCTGGTGCCCTGTTAACCCTTAAAGCTGTGGTTTACAACCTTTCAAAAATTTAAATCATTAGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1144

MAVSRKDWSSALSSSLARQRTLEDEEEQERERRRRHRNLSSTTDDEAPRLSQNGDRQASASERLPSVEEAEVPKPLP
PASKDEDEDIQSILRTRQERRQRRQVVEAAQAPIQERLEAEGRNSLSPVQATQKPLVSKKELEIPRRRLSREQ
RGPWPLEEESLVGREPEERKKGVPEKSPVLEKSSMPKKTAPKSLVSDKTSISEKVLASEKTSLSEKIAVSEKRN
SSEKKSULEKTSVSEKSLAPGMALGSGRRLVSEKASIFEKALASEKSPTADAKPAPKRATASEQPLAQEPPASGG
SPATTKEQRGRALPGKNLPSLAKQGASDPPTVASRLPPVTLQVKIPSKEEEADMSSPTQRTYSSSLKRSSPTIS
FRMKPKKENSETTLTRSASMKLPDNTVKLGEKLERYHTAIRRSESVKSRLPCTELFVAPVGVASKRHLFEKELA
GQSRAPASSRKENLRLSGVVTSLNLWISRTQESGDQDPQEAQKASSATERTQWGQKSDSSLDDEV

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FIGURE 1145

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCAAAGGAATTGAAAGGAACCACTC
ATTCACCTTCTAGACGACAAAATGCAAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATACCTGAGAT
CTATGATCCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGA AAAA ACTTCTTGCCAACCAA ACTGGTC AAAATGTCTTTGGAAGTTTCCTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGAGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAAGTCATATATACTC
TTATGGA AAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGA ACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGCTTTGACAGGCCAAGAAGAACAAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTGCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTCTGGTGTATTTTATTTTATTGTTTTTGAAGAGATGAACTGTGTA
TTTAACTTAAGCTATTGCTCTTAAACCAGGGATCAGAATATATTTGTAAGTTAAATCATTGGTGCTAATAATAA
AIGTGGATTTTGTATTAAAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTTAAAAA ACTTGCA TTT
ATTCCTCAGATTTTTAAAAATAAATAAATAATTCA TTTAAAAA AAAAAA

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FIGURE 1146

MPGMFFSANPKELKGTTHSLLDDKMQRKPCTFGMDMKAYLRSMIPHLESGMKSSKSKDVL SAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSLK

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FIGURE 1147

CGCGCCAGGGCGAGGGCACCGCCGCCGCTCGGGCGCGCTGGGCCTGCCCGGAATCCCGCCGCTGCGCCCCGCGC
CCCGCGCCCTGCGGGCCATGGGAGCCGCGCCCGGCAGGGACGACGCCTGTGAGACCCGCGAGCGGCCTCGGGGA
CCATGGGGAGCGATCGGGCCCGCAAGGGCGGAGGGGGCCCGAAGGACTTCGGCGCGGGACTCAAGTACAACTCCC
GGCAGAGAAAGTGAATGGCTTGGAGGAAGGCGTGGAGTTCTGCCAGTCAACAACGTCAAGAAGGTGGAAAAGC
ATGGCCCGGGGCGCTGGGTGGTGTCTGGCAGCCGTGCTGATCGGCCTCCTCTTGGTCTTGCTGGGGATCGGCTTCC
TGGTGTGGCATTTCAGTACCGGGACGTGCGTGTCCAGAAGGTCTTCAATGGCTACATGAGGATCACAAATGAGA
ATTTTGTGGATGCCTACGAGAACTCCAACCTCCACTGAGTTTGTAAAGCCTGGCCAGCAAGGTGAAGGACGCGCTGA
AGCTGCTGTACAGCGGAGTCCCATTCTTGGGCCCCCTACCACAAGGAGTCGGCTGTGACGGCCTTCAGCGAGGGCA
GCGTCATCGCCTACTACTGGTCTGAGTTTACGATCCCGCAGCACCTGGTGGAGGAGGCCGAGCGCGTCATGGCCG
AGGAGCGCGTAGTCATGTGCCCCGCGGGCGCGCTCCCTGAAGTCCTTTGTGGTACCTCAGTGGTGGCTTTCC
CCACGGACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACGCCCCGCGGTGTGGAGC
TGATGCGCTTACCACGCCCCGCTTCCCTGACAGCCCCCTACCCGCTCATGCCCCGCTGCCAGTGGGCCCTGCGGG
GGGACGCGGACTCAGTGTGAGCCTCACCTTCCGCAGCTTTGACCTTGCGTCTGCGACGAGCGCGGCAGCGACC
TGGTGACGGTGTACAACACCCTGAGCCCCATGGAGCCCCACGCCCTGGTGCAGTTGTGTGGCACCTACCCTCCCT
CCTACAACCTGACCTTCCACTCCTCCCAGAACGTCTGCTCATCACACTGATAACCAACACTGAGCGGCGGCATC
CCGGCTTTGAGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGCTGTGGAGGCCGCTTACGTAAAGCCCAGGGGA
CATTCAACAGCCCCCTACTACCCAGGCCACTACCCACCCAACATTGACTGCACATGGAACATTGAGGTGCCCAACA
ACCAGCATGTGAAGGTGCGCTTCAAATTCTTCTACCTGCTGGAGCCCCGCGTGCCTGCGGGCACCTGCCCAAGG
ACTACGTGGAGATCAATGGGGAGAAATACTGCGGAGAGAGGTCCCAGTTCGTGCTCACCAGCAACAGCAACAAGA
TCACAGTTCGCTTCCACTCAGATCAGTCTACACCGACACCGGCTTCTTAGCTGAATACCTCTCTACGACTCCA
GTGACCCATGCCCCGGGCGAGTTCACGTGCCGCACGGGGCGGTGTATCCGGAAGGAGCTGCGCTGTGATGGCTGGG
CCGACTGCACCGACCACAGCGATGAGCTCAACTGCAGTTGCGACGCCGGCCACCAGTTCAGTGCAGAACAAGT
TCTGCAAGCCCCCTCTTCTGGGTCTGCGACAGTGTGAACGACTGCGGAGACAACAGCGACGAGCAGGGGTGCAGTT
GTCCGGCCAGACCTTCAGGTGTTCCAATGGGAAGTGCCTCTCGAAAAGCCAGCAGTGCAATGGGAAGGACGACT
GTGGGGACGGGTCCGACGAGGCCTCCTGCCCAAGGTGAACGTGCTCACTTGTACCAACACACCTACCGCTGCC
TCAATGGGCTCTGCTTGAGCAAGGGCAACCCTGAGTGTGACGGGAAGGAGGACTGTAGCGACGGCTCAGATGAGA
AGGACTGCGACTGTGGGCTGCGGTCAATCACGAGACAGGCTCGTGTGTTGGGGGACGGATGCGGATGAGGGCG
AGTGGCCCTGGCAGGTAAGCCTGCATGCTCTGGGCCAGGGCCACATCTGCGGTGCTTCCCTCATCTCTCCAACT
GGCTGGTCTCTGCCGCACACTGCTACATCGATGACAGAGGATTGAGTACTCAGACCCACGCAGTGGACGGCCT
TCCTGGGCTTGACGACCAGAGCCAGCGCAGCGCCCCCTGGGGTGCAGGAGCGCAGGCTCAAGCGCATCATCTCCC
ACCCCTTCTTCAATGACTTCACCTTCGACTATGACATCGCGCTGCTGGAGCTGGAGAAACCGGCAGAGTACAGCT
CCATGGTGCGGCCCATCTGCCTGCCGGACGCCTCCCATGTCTTCCCTGCCGGCAAGGCCATCTGGGTACGGGCT
GGGGACACACCCAGTATGGAGGCACTGGCGCGCTGATCCTGCAAAAGGGTGAGATCCGCGTCATCAACCAGACCA
CCTGCGAGAACCTCCTGCCGCAGCAGATCACGCCGCGCATGATGTGCGTGGGCTTCTCAGCGGCGGCGTGGACT
CCTGCCAGGGTGATTCCGGGGGACCCCTGTCCAGCGTGGAGGCGGATGGGCGGATCTTCCAGGCCGGTGTGGTGA
GCTGGGGAGACGGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACAAGGCTCCCTCTGTTTCGGGACTGGATCA
AAGAGAACTGGGGTATAGGGGGCCGGGGCCACCCAAATGTGTACACCTGCGGGGCCACCCATCGTCCACCCAG
TGTGCACGCCTGCAGGCTGGAGACTGGACCGCTGACTGCACCAGCGCCCCCAGAACATACACTGTGAACCTCAATC
TCCAGGGCTCCAAATCTGCCTAGAAAACCTCTCGCTTCTCAGCCTCCAAAGTGGAGCTGGGAGGTAGAAGGGGA
GGACACTGGTGGTTCTACTGACCCAACTGGGGGCAAAGGTTTGAAGACACAGCCTCCCCCGCCAGCCCCAAGCTG
GGCCGAGGCGCGTTTGTGTATATCTGCCTCCCTGTCTGTAAGGAGCAGCGGGAACGGAGCTTCGGAGCCTCCTC
AGTGAAGGTGGTGGGGCTGCCGATCTGGGCTGTGGGGCCCTTGGGCCACGCTCTTGAGGAAGCCAGGCTCGGA
GGACCTTGAAAAACAGACGGGTCTGAGACTGAAATTGTTTTACCAGCTCCCAGGGTGGACTTCAGTGTGTGTATT
TGTGTAAATGAGTAAAACATTTTATTTCTTTTTAAAAA

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FIGURE 1148

MGSDRARKGGGGPKDFGAGLKYNSRHEKVNGLEEGVEFLPVNNVKKVEKHGPGRWVLA AVLIGLLLVL LGIGFL
VWHLQYRDVRVQKVFNGYMRI TNENFVDAYENSNSTEFVSLASKVKDALKLLYSGVPFLGPYHKESAVTAFSEGS
VIAYYWSEFSIPQHLVEEAERVMAEERVVMLPPRARSLSFVVTSVVAFF TDSKTVQRTQDNCSFGLHARGVEL
MRF TTPGFDPSPYPAHARCQWALRGDADSVLSLTFRSFDLASC DERGSDLVTVYNTLSPMEPHALVQLCGTYPPS
YNLTFHSSQNVLLITLITNERRHPGF EATFFQLPRMSSCGGRLRKAQGTFN SPYYPGHYPNIDCTWNIEVPNN
QHV KVRFKFFYLLEPGVPAGTCPKDYVEINGEKYCGERSQFVVTSNSNKITVRFHSDQSYTDTGFLAEYLSYDSS
DPCPGQFTCRTGRCIRKELRCDGWADCTDHSDELNCSCDAGHQFTCKNKFCKPLFWVCD SVNDCGDN SDEQGCSC
PAQTFRCSNGKCLSKSQQCNGKDDCGDGSDEASCPKVNVTCTKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEK
DCDCGLRSFTRQARVVG GTDADEGEWPWQVSLHALGQGHICGASLISP NWLVSAAH CYIDDRGFRYSDPTQWTAF
LGLHDQSQRSAPGVQERRLKRIISHPFFNDFTFDYDIALLELEKPAEYSSMVRPICLPDASHVFPAGKAIWVTGW
GHTQYGGTGALILQKGEIRVINQTT CENLLPQQITPRMMCVGFLSGGVDSCQGDSSGGPLSSVEADGRIFQAGVVS
WGDGCAQRNKPGVYTRLPLFRDWIKENTGV

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FIGURE 1149

GTTTGTGGCTGCGGCAGCAGGTAGCAAAGTGACGCCGAGGGCCTGAGTGCTCCAGTAGCCACCGCATCTGGAGA
ACCAGCGGTTACCATGAGAGGGGATCAGTATATACACTTCAGATAACTACACCGAGGAAATGGGCTCAGGGGACTA
TGACTCCATGAAGGAACCCTGTTTCCGTGAAGAAAATGCTAATTTCAATAAAATCTTCCTGCCCCACCATCTACTC
CATCATCTTCTTAACTGGCATTGTGGGCAATGGATTGGTCATCCTGGTCATGGGTTACCAGAAGAAACTGAGAAG
CATGACGGACAAGTACAGGCTGCACCTGTCAGTGGCCGACCTCCTCTTTGTATCACGCTTCCCTTCTGGGCAGT
TGATGCCGTGGCAAACCTGGTACTTTGGGAACTTCCTATGCAAGGCAGTCCATGTCATCTACACAGTCAACCTCTA
CAGCAGTGTCTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTGGCCATCGTCCACGCCACCAACAGTCAGAG
GCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGCGTCTGGATCCCTGCCCTCCTGCTGACTATTCCCGA
CTTCATCTTTGCCAACGTGAGTGAGGCAGATGACAGATATATCTGTGACCGCTTCTACCCCAATGACTTGTGGGT
GGTTGTGTTCCAGTTTTCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTATCCTGTCTGCTATTGCAT
TATCATCTCCAAGCTGTCACACTCCAAGGGCCACCAGAAGCGCAAGGCCCTCAAGACCACAGTCATCCTCATCCT
GGCTTTCTTCGCCTGTTGGCTGCCTTACTACATTGGGATCAGCATCGACTCCTTCATCCTCCTGGAAATCATCAA
GCAAGGGTGTGAGTTTGTAGAACACTGTGCACAAGTGGATTTCATCACCGAGGCCCTAGCTTTCTTCCACTGTTG
TCTGAACCCCATCCTCTATGCTTTCCCTGGAGCCAAATTTAAAACCTCTGCCACGACGCACTCACCTCTGTGAG
CAGAGGGTCCAGCCTCAAGATCCTCTCCAAAGGAAAGCGAGGTGGACATTCATCTGTTTCCACTGAGTCTGAGTC
TTCAAGTTTTCACTCCAGCTAAACACAGATGTAAAAGACTTTTTTTTATACGATAAAATAACTTTTTTTAAGTTAC
ACATTTTTTCAGATATAAAAGACTGACCAATATTGTACAGTTTTTTTATTGCTTGTGGATTTTTGTCTTGTGTTTCT
TTAGTTTTTGTGAAGTTTAAATTGACTTATTTATATAAATTTTTTTTGTTCATATTGATGTGTGCTAGGCAGGA
CCTGTGGCCAAGTTCTTAGTTGCTGTATGTCICGTTGGTAGGACTGTAGAAAAGGGAAGTGAACATTCCAGAGCGT
GTAGTGAATCACGTAAAGCTAGAAATGATCCCCAGCTGTTTATGCATAGATAATCTCTCCATTCCCGTGGAAACGT
TTTTCTGTTCTTAAGACGTGATTTTGTCTGTAGAAGATGGCACTTATAACCAAAGCCCAAAGTGGTATAGAAATG
CTGGTTTTTCAGTTTTTCAGGAGTGGGTTGATTTTCAGCACCTACAGTGTACAGTCTTGTATTAAAGTTGTTAATAAA
AGTACATGTTAAACTTACTTAGTGTTATG

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FIGURE 1150

MEGISIYTS DNYTEEMSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKLRSM TDK
YRLHLSVADLLEFVITL PFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLD RYLAIVHATNSQRPRKL
LAEKVVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISK
LSHSGHQRKALKTTVILILAFFACWL PYYIGISIDSFILLEIKQCEFENTVHKWISITEALAFFHCCLNPI
LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS

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FIGURE 1151

TAAATTGCCATTTGAAATCTTTATTAGTTAGCAAAAAATCTAACATAATCATCAGAGTTTTAAGTAGTAGTGAC
AGAAGATAAAAAATGCCTCCATATCCCAAATTAACATCTCCGTATACCAAGTAGCTAACTTTTTATTGTTTTACAAC
TAAAGTCAGGGTTTTTATTTTCAGAGACAATTCTGCAAACCTTGACATTAAAGCAGTAGTTTGGCATGGTTTAAAA
TACATTCAAATGTATACTAAATGTTTTAGAAAATATTCCATTGTTGAATACATTCACATGGAATTTATGTGAAT
TAATTGAATTGATAGTGAAATATTATAAGCACCATGTGAACATACACAAACATATTCTTG

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FIGURE 1152

GAATTCGGGAAGCCAGACGGTTAACACAGACAAAGTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGG
CAAGAGCAGCGACCGCGCACCTGTCCGCCCGGAGCTGGGACGCGCGCCCGGGCGGCCGGACGAAGCGAGGAGGGA
CCGCCGAGGCTGCCCCAAGTGTAACCTCCAGCACTGTGAGGTTTCAGGGATTGGCAGAGGGGACCAAGGGGACAT
GAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGAAGTGACATACATTGT
GAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTCAGGCGGAGGCATCCTTACCAAGGAATCT
GCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACATACCAAGGGCACACG
TTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACAGGAAATATTTTTGGAG
GATCTATTCCAGAGGGGAGCTTCACCACTTCATTGACGGCTTTAATGAAGAGAAAAGCAACTGGATGCGCTATGT
GAATCCAGCACACTCTCCCCGGGAGCAAAACCTGGCTGCGTGTCAGAACGGGATGAACATCTACTTCTACACCAT
TAAGCCCATCCCTGCCAACAGGAACCTTCTTGTGTGGTATTGTTCGGGACTTTGCAGAAAGGCTTCACTACCCCTTA
TCCCGGAGAGCTGACAATGATGAATCTCACACAAACACAGAGCAGTCTAAAGCAACCGAGCACTGAGAAAAATGA
ACTCTGCCCAAAGAATGTCCCAAAGAGAGGTACAGCGTGAAAGAAATCCTAAAATTGGACTCCAACCCCTCCAA
AGGAAAGGACCTCTACCGTTCTAACATTTACCCCTCACATCAGAAAAGGACCTCGATGACTTTAGAAGACGTGG
GAGCCCCGAAATGCCCTTCTACCCCTCGGGTCTGTTACCCCATCCGGGCCCCCTCTGCCAGAAGACTTTTTGAAAGC
TTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCATTCCATCCTCCACCACTCCAAGCCC
CTCTGCAAGAAGCAGCCCCGACCAAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGGAATACGGTGTCCCC
TGTGGGCCCCGGCTCTCAAGAGCACCGGGACTCCTACGCTTACTTGAACGCGTCTACGGCACGGAAGGTTTGGG
CTCCTACCCCTGGCTACGCACCCCTGCCCCACCTCCCGCCAGCTTTTCATCCCTCGTACAACGCTCACTACCCCAA
GTTCTCTTTGCCCCCTACGGCATGAATTGTAATGGCCTGAGCGCTGTGAGCAGCATGAATGGCATCAACAACCTT
TGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGAGCCTGCCCCACCCCATGCTCAA
CCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGGAGGTTGCTCCAGCCGGAGCATCCCAGGGAGGT
GCTTGTCCCGGCGCCCCACAGTGCCCTTCTCCTTTACCGGGGCGCCGCCAGCATGAAGGACAAGGCCTGTAGCCC
CACAAGCGGCTCTCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCAAAGCTACCTCAGCAGC
GATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACCGGCTACAAGACCCCT
TCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGCGCCAAGACTTTCGGCCAGCT
CTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTCAGACTTGCAACAAGGGCTT
TACTCAGCTCGCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAGCCACATGAATGCCAGGTCTGCCA
CAAGAGATTTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAACCATAACCAATGCAA
GGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAACTGCACAAGCGTCTGCACACCCGGGAGCGGCCCCA
CAAGTGCTCCAGTGCCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTACCTGAAAGGGAACTGCGCTGC
GGCCCCGGCGCCTGGGCTGCCCTTGGAAAGATCTGACCCGAATCAATGAAGAAATCGAGAAGTTTGACATCAGTGA
CAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAGGAAATCTTGCCCGT
GGTCAGAAAAGAGAAAGAAAGAACTGGCCTGAAAGTGTCTTTGCAAGAAACATGGGGAATGGACTCCTCTCCTC
AGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCAGCAACCCACTACCTCTGGTACC
TGTAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACACTTATTT

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FIGURE 1153

MKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGADGGTSVQAEASLPRNLLFKYATNSEEVIIGVMSKEYIPKGT
RFGPLIGEIIYTN DTVPKNANRKYFWRIYSRGELHHFIDGFNEEKS NWMRYVNP AHS PREQNLAACQNGMNIYFYT
IKPIPANQELLVWYCRDFAERLHYPYPGELTMMNL TQTQSS LKQPST EKNELCPKNVPKREYSVKEILKLD SNPS
KGKDL YRSNISPLTSEKDLDDFRRRGSP EMPFYPRVVYPIRAPLPEDFLKASLAYGIERPTYITRSP IPSSTTPS
PSARSSPDQSLKSSSPHSSPGNTVSPVGPGSQEHRDSYAYLNASYGTEGLGSYPGYAPLPHLPPAFIPSYNAHYP
KFLLPYPGMNCNGLSAVSSMNGINNFGLFPRLCPVYSNLLGGGSLPHPMLNPTSLPSSLPSDGARRLLQPEHPRE
VLVPAPHSASFSTGAAASMKDKACSPTSGSPTAGTAATAEHVVQPKATSAAMAAPSSDEAMNLIK NKRNM TGYKT
LPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFCQTCNKGFTQLAHLQKH YLVHTGEKPHECQVC
HKRFSSTSNL KTHLR LHSGEKPYQCKVCPAKFTQFVHLKLHKRLHTRERPHKCSQCHKNYIHLCSLKVHLKG NCA
AAPAPGLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEKEILAVVRKEKEETGLKVSLQRNMGNGLLS
SGCSLYESSDLPLMKLPFSNPLPLVPVKVKQETVEPMDP

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FIGURE 1154

[illegible]

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FIGURE 1155

MPKP INVRVTMTDAELEFAIQPNTTGKQLFDQVVKTIGLREVWYFGLHYVDNKGFTWLKLDKKVSAQEVKKNP
LQFKFRAKFYPEDVAEELIQDITQKLFFLQVKEGILSDEIYCPPETAVLLGSYAVQAKFGDYNKEVHKSGYLSSE
RLIPQRVMDQHKLTRDQWEDRIQVWHAHRGMLKDNAMLEYLTKIAQDLEMYGINYFEIKNKKGTDLWLGV DALGL
NIYEKDDKLT PKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILQLCMGNHELYMRRRKPD TI
EVQQMKAQAREEKHQKQLERQQLETEKKRRETVEREKEQMMREKEELMLRLQDYEEKTKKAERELSEQIQRALQL
EEERKRAQEEAERLEADRMAALRAKEELERQAVDQIKSQEQLAAELAEYTAKIALLEEARRRKEDEVEEWQHRAK
EAQDDL VKTKEELHLVMTAPPPPPPVYEPVSYHVQESLQDEGA EPTGYS AELSSEGIRDDRNEEKRITEAEKNE
RVQRQLLTLSSELSQARDENKRTHNDIIHNENMRQGRDKYKTLRQIRQGNTKQRIDEFEAL

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FIGURE 1156

CTATAAATTAAGGATCCCAGCTACTTAATTGACTTATGCTTCCTAGTTCGTTGCCAGCCACCACCGTCTCTCCA
AAAACCCGAGGTCTCGCTAAATCATCATATGGATTACATTGGCGCCGTCAGCACTCGACTTGGGTTTGATCTTTTC
AAAGAGCTGAAGAAAACAAATGATGGCAACATCTTCTTTTCCCCTGTGGGCATCTTGACTGCAATTGGCATGGTC
CTCCTGGGGACCCGAGGAGCCACCGCTTCCCAGTTGGAGGAGGTGTTTCACTCTGAAAAAGAGACGAAGAGCTCA
AGAATAAAGGCTGAAGAAAAAGAGGTGATTGAGAACACAGAAGCAGTACATCAACAATTCCAAAAGTTTTTGACT
GAAATAAGCAAACCTCACTAATGATTATGAACTGAACATAACCAACAGGCTGTTTGGAGAAAAAACATACCTCTTC
CTTCAAAAATACTTAGATTATGTTGAAAAATATATCATGCATCTCTGGAACCTGTTGATTTTGTAATGCAGCC
GATGAAAGTCGAAAGAAGATTAATTCCTGGGTGAAAGCAAAACAAATGAAAAATCAAGGACTTGTTCAGAT
GGCTCTATTAGTAGCTCTACCAAGCTGGTGCTGGTGAACATGGTTTATTTTAAAGGGCAATGGGACAGGGAGTTT
AAGAAAGAAAATACTAAGGAAGAGAAATTTGGATGAATAAGAGCACAAAGTAAATCTGTACAGATGATGACACAG
AGCCATTCTTTAGCTTCACTTTCTTGGAGGACTTGCAAGGCCAAAATCTAGGGATTCCATATAAAAAACAACGAC
CTAAGCATGTTTGTGCTTCTGCCCAACGACATCGATGGCCTGGAGAAGATAATAGATAAAATAAGTCTGAGAAA
TTGGTAGAGTGGACTAGTCCAGGGCATATGGAAGAAAGAAAGGTGAATCTGCACTTGCCCCGGTTTGAGGTGGAG
GACGGTTACGATCTAGAGGCGGTCTGGCTGCCATGGGGATGGGCGATGCCTTCAGTGAGCACAAAGCCGACTAC
TCGGGAATGTCTGTCAGGCTCCGGGTGTACGCCCAGAAGTTCCTGCACAGTTCCTTTGTGGCAGTAACTGAGGAA
GGCACCGAGGCTGCAGCTGCCACCGGCATAGGCTTTACTGTACATCCGCCCCAGGTCATGAAAATGTTCACTGC
AATCATCCCTTCTGTCTTTCATCAGGCACAATGAATCCAACAGCATCCTCTTCTTCCGCAGATTTTCTTCTCCT
TAAGATGATCGTTGCCATGGCATTGCTGCTTTTAGCAAAAAACAACCTACCAGTGTTACTCATATGATTATGAAAA
TCGTCCATTCTTTTAAATGTTGTCTCACTTGCAATTTCCAGTCTTGCCCATCAAATCAATGATTTAATGACTCCAA
TAATGTGTGTGTTTATAACCATCCTCGAAAGTGAATGTCCTTTTTTTTTTGTGCCATGCGTAAGGTGAGTCAAACC
AAACCTCATTGATAATCTCCCCTTTGGTTTCTTTGAAAGTAAATTGGTATCTTGTAGTTTTGTGCACACGAAAG
GAGAGAAAGTTTTCTCCAGTAAAGAGTACGAACCTAGTAATTTTGGGGGGTCTCTCTAATTCTGGTATTTTGACATG
TTATAATACGCAAGTAAAAATAAAACAATAGTTTACTCAGCTCATGTTACTATTCCCCAACAGATATTGTGGCAAA
TCACACATAGGAAAAGAGGATTTGGGAATACAGTAGCAAAACATAAATTAAAACTCAAATGCCCAGGACAAAATAA
AACAATATAACCAGATGGAGAGGATGCCCCGATTTTTCATCTTCCATTCTAACATTATCCATTGTTAGATGCATAAG
CATTTTGATAATTGTGTAATAAATGTGGTATTTGAGAAGATAAATGATGTAGTTGATCAGTAATCCTCCTCTATCA
CCTTTTTAGACTTTTGTAAGGTAAATATTTGGACTAACTTTTAGAAAAGTTTCCCTTTTTTCTCCATTTACATTT
TTCTGGTTTTTTTTTTTTTTTTTTTGTAGTGAGGTACGAGTATTACCAATGATATTTCTGAAGATGCTTTTTTGAA
AGCTCTGAATCTATACCTAATGCTCTTAATTATTGGCTTGTTTCATTTTTTCTCCAGTTTTTAACAAGATCAC
ATAACTGGCTTATTTTAAACAGCTTTGTCAAACCTACAATTTACATGCCGTAAAATGTACACACTGTAATTTTATA
ATTCATTGACTTTTAGTAAATTTCTAGCGTTATGCATGCCACAATCCAGTTTTAGAATATTTCCATGACCCTA
AGAAGTTTCTCATGTCTATTAATATTTCCAATCCTAGGCACCACTGAGTTGTTTTCTGTCTTTATAAGTTTTTC
TTTCTACATCTTATATAAATGGAATCATAATACATGTAGTATTTTGTGTCTGGCGTCTGCACTTAGCATGGTGT
TCTTGAGGTTCACTGTTGTAGTATGTATTGATACTTAGGATTTTTTTATTGCCGAATACTATTCCATTGCATGG
AAAAGACCTATTTTATTTCTAGGTTACCAGTTGAGGGACATTTGGATTGTTCCCACTTCTGGGCTGTTAGGAA
TAATGTTGCTCTGAACATGTAAATAAAGATCTTTGTGTTACATATGTTTTTCATTTCTGTTGGGGAGATTCCC
TAGGCTAGAAATGCTGGGCCATATGAAAAATCAATAGTTAGCTTTGTAAGAAACAGTCAAACCTGTTTTCCAAC
GTGACATTTTATATTTCCACCAGGAATGTTTAAACTAGTGTCTTCAAATCCTCACCAACATCCAGGATTGTGTC
TTTATGATTATAGCCATTTTTGTAGGTACAAAGTGGCATCTCATGGTGGTTTTAATTGCATTTCCATAATATCT
AATTAGGTTGAGCTTTTTTTATGTGCTTATTGGCCATTTGTTTGACTTTGTTTGGTGAAATGTATACAAATCATT
TGCTCATTTTTTAATTTGGGTTGTCTGTCTTCTCATTTTTATTGAGTTAAATGAGTTCCTTAATAATCTCTGG
CTTACAAGTCCTTAATTTATCAAATATATGATACGTGGACATTTCTCATAAAAA

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FIGURE 1157

MDSLGA VSTR LGFDL FKELKKTNDGN IFFSPVGILTAIGMVLLGTRGATASQLEEVFHSEKETKSSRIKAEKEV
IENTEAVHQFQKFLTEISKLTNDYELNITNRLFGEKTYLFLQKYLDYVEKYYHASLEPVDFVNAADESRRKINS
WVESKTNEKIKDLFPDGSISSSTKLVLVNMVYFKGQWDREFKKENTKEEFWMNKSTSKSVQMMTQSHFSFTFL
EDLQAKILGIPYKNNDLSMFVLLPNDIDGLEKIIDKISPEKLV EWTSPGHMEERKVNHLHLPREFEVEDGYDLEAVL
AAMGMGDAFSEHKADYSGMSSGSLYAQKFLHSSFVAVTEEGTEAAAATGIGFTVTSAPGHENVHCNHPFLFFIR
HNESNSILFFGRFSSP

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FIGURE 1158

TAGCTAGGCAGGAAGTCGGCGCGGGCGGCGGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCTCCGCTTCCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCACTGTTGAGGTTGATCTCTT
CACCTCAAAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGCCCTAGAGCTCCG
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAATAAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTCACAGAACAAGAGAAGATTGACAAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGCTCTGCAAAGCTGGTGCCGTTGA
GAAGGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTCGGTGC
AGCAAACCTTCAGGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCTTGCCG
ATCTGAGCGCTTGGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACCTCAGAAACCCCTTGGCCAAGTAAAGCTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCTCCCCTCGTGTGAGCTCAGGCAGCTCGAGGCCCCGACCAACACTTGCAAGGGGTCCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTCGTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGAGTCGTGTAATTGGCCCAAGTCATTGTTTTTCTCGCCTCACTTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTCACTCCGGGGTGGCCACAGGCTAGATCCCCGGTGGTTTTGTGCTCAAAATAAAAAGCCTCA
GTGACCCATGAG

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FIGURE 1159

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVNTEQEKIDKLMIEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPAF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEYGKDATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFNRNPLAK

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FIGURE 1160

AGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCCAAAATGTCG
CTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGACTTCAATGTT
CCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATTTCTGCTTGGAC
AATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGACAAGTACTCC
TTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTGTGTAGGCCCA
GAAGTGGAGAAAAGCCTGTGCCAACCAGCTGCTGGGTCTGTTCATCTGCTGGAGAACCCTCCGCTTTTCATGTGGAG
GAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGCTTTCCGAGCT
TCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAGCTCCATGGTA
GGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACACTTTGCAAAGGCCTTGGAG
AGCCCAGAGCGACCTTCCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCATCAATAATATG
CTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAAATGGCTTTTACCTTCCCTTAAGGTGCTCAACAACATGGAG
ATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGAGAAGAATGGT
GTGAAGATTACCTTGCCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGGCCAAGCCACT
GTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTATGCTGAGGCT
GTCACCTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGGTATTTGAATGGGAAGCTTTTGCCCGGGGAACC
AAAGCTCTCATGGATGAGGTGGTGAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGGAGACACTGCC
ACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAGTTTGGAGCTC
CTGGAAGGTAAAGTCCTTCCCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTTCTGCCTTTTAGTTCTGTGC
ACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTGAG
CTAGTGGCCAAGAGATGCAGTGCCAGGAACCCCTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCTT
GGATTTGCATACATTCTTCAAGATCCCATTTGAATTTTTTAGTGACTAAACCATTGTGCATTCTAGAGTGCATAT
ATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGTATGTAGGTATTATGATTA
GCTTTGTCACTGTTTCACTACTCAGCATGGAAACAAGATGAAATTCATTTGTAGGTAGTGAGACAAAATTGATG
ATCCATTAAGTAAACAATAAAAGTGTCCATTGAAACCGTGATTTTTTTTTTTTTTCTGTCTACTTTGTTAGGAA
GGGTGAGAATAGAATCTTGAGGAACGGATCAGATGTCTATATTGCTGAATGCAAGAAGTGGGGCAGCAGCAGTGG
AGAGATGGGACAATTAGATAAATGTCCATTCTTTATCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTT
TATTCTAAGTTTTATTTTTATCAGTTACACATGATCATAATTTAAAAAGTCAAGGCTTATAACAAAAAAGCCCCA
GCCCCATTCTCCCATTCAGATTCCCACTCCCCAGAGGTGACCACTTTCAACTCTTGAGTTTTTCAGGTATATAC
CTCCATGTTTCTAAGTAATATGCTTATATTGTTCACTTCCCTTTTTTTTTTATTTTTTAAAGAAATCTATTTTCATAC
CATGGAGGAAGGCTCTGTTCCACATATATTTCCACTTCTTCATTCTCTCGGTATAGTTTTGTACAAATTATAGAT
TAGATCAAAAGTCTACATAACTAATACAGCTGAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1161

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVEWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGGKVLPGVDALSNI

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FIGURE 1162

TTTAAAAAGGCAAATGATTTTATTGTTTCGATAATCTTTTAAAAAATAAGAGGAAGGAGTAAAATTAAAGATGAA
AGATGATTTTTATTTCCTTGTGACCTCTATATCCCCCTTCCCCTGCCCTTGGTAAGTAACCTCTTGATGGAGAAAG
GATTAAAGACTCTTATTTAACCAAAAAACAGAGCCAGCTAATCATTTCCAAAGGTTAGTATCTCCCTGCTGACCT
CTTCTTTGGTTTAAATTGAATAAACTATATGTTTCATATTTGTATTTAAAACCACTCAGAATAACATCTTTTCTT
CCTTAGTTAAGGCATTATAAGGGCTATAACTATCATCCATAATAACCAAGGCAATAACTTAGAAAGCTGCTTTGA
TGGGAGTAGAACTTACAAACAAATAAATTCAATAGACCTTTGTCATAAAACCGGTATGAAGAGACAAAGGTAAT
ACCCATATTGTTAAAGGTTACCTCTTACAGTGAAAAAAGATCTCTGAGCATTAGCAGTGAGATTTTCATCTG

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FIGURE 1163

GAGTGCGCATGCGCAGAGCGGCCAACCCGTGAGGGAGCGTTTCTGACGCTAGGTCAAGGGCGGTGTTCTGTGTT
CTTAGGGCCCCAGGAGGCGAGTCTGAGTGGAACCTGGCTGGGGTAGGCTGAAAGGTGACTTCGACGCTCTTCTGA
GGCCTCAGACGTGTGTGATGACTGCCCTGTAGAATCAGTGCTGTGACCCGAGTAACAACGCGCGCTTGAGTTGG
TATAAACTCCTGAAGTTTCAGGAATTAGTGACATTCAGGGATGTGGCCATAGACTTCTCTCGGCAGGAGTGGGAA
TACCTGGACCCTAATCAGAGGGACTTATACAGGGATGTGATGTTGGGAACTATAGAAACCTGGTATCACTGGAT
TTGGATTTACAGTGTGAGATAATCAGCTACATAGAAGTACCCACTTATGAAACAGATATATCCTCTACACAACCTT
CAGAGCATATATGAGAGAGAGAACTCTATGAATGTAAGAAATGTCAGAAGAAATTTAGTAGTGGTTATCAACTT
ATTCTACATCACAGGTTTTCATGTCATTGAGAGACCTATGAATGCAAAGAGTGTGGGAAGAACTTTCGTAGTGGC
TATCAACTTACTCTACATCAAAGATTTTCATACTGGTGAGAAACCTTATGAATGTACAGAATGTGGGAAGAACCTT
AGAAGTGGTTATCAGCTGACTGTGCATCAGAGATTTTCATACTGGTGAGAAAACCTATGAATGTAGGCAGTGTGGG
AAGGCCCTTTATATATGCCTCACACATTGTTCAACATGAGAGAATTCACACTGGTGGGAAGCCGTATGAATGTCAG
GAGTGTGGGAGGGCCTTTAGTCAAGGTGGACATCTTAGAATTCATCAGAGAGTTCATACTGGCGAAAAACCATAT
AAATGTAAGGAATGTGGGAAGACTTTTAGTAGGCGCTCAAATCTTGTTGAACATGGGCAGTTTCATACTGATGAG
AAGCCATACATATGTGAGAAATGTGGAAAGGCCCTTTAGAAGAGGTCAACAGCTTACTGTACATCAGAGAGTTCAC
ACTGGTAAAAAGCTATATGAGTGTAAAGAATGTGGGAAGGGCTATACCACTGCCTCATACTTTCTTCTACATCAG
AGAATTCATAAAGGTGGAAAACCCCTATGAATGTAAGGAGTGTAAAGAAAACCTTTACTTTGTATAGAAATCTTACT
CGGCATCAGAAATATTCATACTGGTGAGAAACCTTTTTGAATGCAAGCAATGTGGGAAGACCTATACTACTGGTTCA
AAACTCTTTCAACATCAGAAAACCTCATACTGGCGAGAAAACCTTATGAATGCAAGGAATGCGGAAAGGCCCTTTAGC
TTGTATGGCTACCTTAAACAACATCAGAAAATTCATACTGGCATGAAACACTTTGAATGTAAGGAGTGTAAAAAA
ACCTTTACTTTGTATAGAAATCTTACTCGACATCAGAAATATTCACACTGGTAAGAAAACCTTTTGAATGTCAGGAA
TGTGGGAAGGCCCTATAGTACTGGCTCAAACCTTATTCAACATCGGAAAACTCATACTGGTGAGAAAACCTTATAAA
TGTAAGGAATGTGGCAAGACCTTTAGCTTGCATGGATATCTTAATCAACATCAGAAAATTCATACTGGTATGAAA
CCCTATGAATGTAAGGTATGTAGAAAAACCTTTACTTTCTATAGAAATCTTACTCTACATCAAAGTATTCATACT
GATGAGAAAACCTTTTGAATGTAAGGAATGTGGGAAGACCTTTAGACGTAGTTCACACCTTACTGCACATCAGAGC
ATTCATGCTGATAAAAAACCCCTATGAATGTAAAGAATGTGGAAAGGCCCTTTAAATGTATGGCTACCTTACCCAA
CATCAGAAAATTCATACTGGTGAGAAAACCTTATGAATGTAAAGAATGTGGGAAGGCCCTTCAGTCGTGCTTCAAAC
CTTGTTCAACATGAGAGAATTCATACTGGTGAGAAAACCTTATGTGTGTAAGCAGTGTGGGAAAACCTTCAGATAT
GGTTCAGCCCTTAAAGCCCATCAGAGAATTCATAGGAGCATAAAAGTGTAAAGACCGTAAAGAGTACGAGCGCGCC
ATTCATCATCAGACAGCCACACTGGTGAGAAATGATGGAATGTTAGTCTTATAGGTATGGCTTTAGCAATTGAG
AGAGTTCAAATGCAGATCTTGCCACATTAGAAAGCATTCAATGTCAGTCCTGTTTTAATGGAATATCTGACTAT
TCAATGGTAAATTAAG

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FIGURE 1164

MLENYRNLVSLDLDLQCEIISYIEVPTYETDISSTQLQSIYEREKLYECKKCKKFSSGYQLILHHRFHVIERPY
ECKECGKNFRSGYQLTLHQRFTGKPYECTECGKNFRSGYQLTVHQRFTGKTYECRQCGKAFIYASHIVQHE
RIHTGGKPYECQECGRAFSQGGHLRIHQRVHTGKPYKCKECGKTFSRRSNLVEHGQFHTDEKPYICEKCGKAFR
RGHQLTVHQRVHTGKKLYECKECGKGYTTASYFLLHQRHKGKPYECKECKKTFTLYRNLTRHQNHTGEKLFE
CKQCGKTYTTGSKLFQHOKTHTGKPYECKECGKAFLYGYLKQHOKIHTGMKHFECCKKTFTLYRNLTRHQN
IHTGKKLFECQECGKAYSTGSNLIQHRKTHGKPYKCKECGKTFSLHGYLNQHOKIHTGMKPYECKVCRKTFTF
YRNLTLHQSHTDEKPFECCKGKTFRSSHLTAHQSIHADKKPYECKECGKAFFMYGYLTQHOKIHTGGKPYEC
KECGKAFSRASNLVQHERIHTGKPYVCKQCGKTFRYGSALKAHQRIHRSIKV

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FIGURE 1165A

GCGCCCCGCCCTTTCTCGGCCCCCGGAGGTGACGGGGTGAAGGCGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCCGCGCAGCCGTACCCGCGCCGCGTCACGGCTCCCGGGCCCCGCCCTCCTCT
GACCCCTCCCCTCTCTCCGTTTGCCCTCTCCCCCTCCTCCGCCGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTCTCTCCTTCTCGCAGCCGCGCCAGGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCCGA
GATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGACTCCTACAAGGTTACTACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTTCTGAGGGCTTTGTCAT
TCCCAGAGGAAATGTTCTCTTACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAAATTGGATTGAGAC
TATTCTTGTTTCTGTTTCAATCAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATA
TTTGTTAGAAAACCTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAACCCCTCTTGACACTGTGTTAAAGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGTTTCTGGTGGAGGTTTGTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTTCAA
GTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTACTACTGGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAAGCTATTCATTTGATGA
AATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCATTAGGCCTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTATGGACATACTGCCCTTTTCTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTATGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATACTGATGATCACATAAAACAGATTGCA
TAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGTACAAACAAGATTGTGTAAAGATATATTT
GAAGTTTCACTGATTTAACAGTCTTTCCAACCTTTTCTATGATTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTTGTGTTATTGT
ACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTACTGCCCTTGTAGAATATGTATTAAT
CATCTACATTAAAGAAAATAATGGTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATACTTGGTTGT
TGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTAAAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAAATACTTACAAAAGTGGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGAGTGTACTTAAATGTTTCAATTCGTATATTT
TTTATTAAGTTTTTTAAAAAATTAAATTGGATATTAAATTGTATGGACATCATTTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAAATGTTCTAGAGTGATTAGCTACTAGATTCT
TGAATCATACATCACATCTGACTAGAGACCAGTTTCTTTTCAAGTATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACATAGCCCAAAGGCCAAATTTGGACTTCTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGGCCCAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTAACATGACATTAAATGTGAAATT
TTAAAATTGAAAAGCCATAAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTTGTAAGTGGTATTAGAAAAGATATGTTTTTCAGATGGTCTTTAAACA

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FIGURE 1165B

TGTAGTGAGAACAAATAAGCATTATTCACTTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAGAACTATTACCAATAATAGTTTTGATAATCACCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTTCAGCAGCTTCAGAATAGAGTTTAATTTAGAAATTT
GCAGTGAAAAAGCTATCTCTTTGTTACAACCATAAATCAGGAGATGGAGATTAAATCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCACCCTTAAATCAGTCTAAATCTTCAGACAAAAGCAAA
TGGCATTATGGAATTAAGTCATTAGATTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAAGTAAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTTATAATGAAATCTATCTTGGA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTGTAG
TTTACATTCCTTTTTAACCATTTCAGTGGAGAATGTCAGCTTTTCTCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTAA

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FIGURE 1166

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVIFYGLQYILNKYLKGVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPKIEIKAVPEGFVIPRGNVLFVTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEKYLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYYGTKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLD TVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEI VEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTFAGNFVTL EEGKGD
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1167

CGCGCGGCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAGGTAAAGTAGTAACCAAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTT
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTCCCTGAGGGCTTTGTCAATCCCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTGAATTGTTCCCTCAAGTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAAGCTATTTCATTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTTATGACTGGGTGTGTGTGTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAGAGATGAGTGCTAAAGTAAGCTTTTATAGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGT
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCATGATTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTA
CTGCCCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAATACTTACAAAAGTGG

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FIGURE 1168

MNPAAEAEFNILLATDSYKVTYKQYPNTSKVYSYFECREKKTENSKLRKVKEYEETVIFYGLQYILNKYLK GKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP I E I KAVPEGFVIPRG NVLFTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLE YKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRSLHRTFAGNFV TLEEGKGD L
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1169

GCGGCCGCCGGTCCCTCCCTCCACCTCCTCCTCGGCCCCCCCTCGCTTCCCTCCTCCCACTTCCCGAGCTCCGGCG
TCGTCCCAGGACGCTCGACGCTGCTGCAGGAACAAAGGAAGACCCCGCGCGGCGGCGGCCACCTCCGCCTG
CTGCTCCGACCCGCTCCCGGCCCGCGCGGCGGCACCAGGGCGCCCGGCTCAGCCTTCCCGGAGGCCTCGGCCCCG
GCCTCATCGTGCCGGCTTCGCGCGCGAACC CGGCTTTTCGCATTTGGGACCCTGCAGGAAAAATATGGCTCAGGAG
ACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGGAAATCCTAGGACAAATGGAATG
TGTTTCAGTTTGCTACAAAGAACATCTTCAGAGGCAGCAAATAGTGGCAGAATGAGCCCAATGGGGACAGCTAGT
GGTTCCAACAGTCTTACCTCAGATTCTGCATCTGTACAGAGAGCAGACACTAGCTTAAACAACGTGTGAAGGTGCT
GCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTGCCTTGCTGTAACTCAGCAAATGACAGAAATG
AGCATTTCAAGAGAGGACAAAATAACTACCCCGAAAACAGAGGTGTGAGAGCCAGTTGTCACTCAGCCCAGTCCA
TCAGTTTCTCAGCCCAGTACTTCTCAGAGTGAAGAAAAAGCTCCTGAATTGCCCAAACCAAGAAAAACAGATGT
TTCATGTGCAGAAAGAAAGTTGGTCTTACAGGGTTTGACTGCCGATGTGGAAATTTGTTTTGTGGACTTCACCGT
TACTCTGACAAGCACAACTGTCCGTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAAGAGAATCCAGTT
GTTGTGGCTGAAAAAATTCAGAGAATATATAATTACTTCTTGTGAAGAGACTGAAACTTTGTTTTATTTAATAT
ATCGTAGGAAAACATTAAAGAGCAGATGCATGGCCATTTTCTTTGATGTTCTCCAGAGTTTACATTACACTTG
TCTGTCTTATAATTGATATTTTAGGATGTTTGGGTGTTTGTACAGGCAGAATTGGATAGATACAGCCCTACAAA
TGTATATGCCCTCCCCTGAAAAAATTCAGATGAAATCTGCACAGCAAAGTGAAACACACAGATAATAGGAACAA
AATGTAGTTCCCATGTGCCAAACAAAATAAATGAAATCTCTGCATGTTTGCAGCATATCTGCCTTTTGGGAATGT
AATCAAGGTATAATCTTTGGCTAGTGTATGTGCCTGTATTTTTTTAAATGGTACACCAGAAAAGGACTGGCAG
TCTACTTCTACCATAGTTAAACTTCACCCCTCTTAATTTTACAACATATTCTTTGGAAGCAGGAAGAAATGCTCA
TAAAGAGGATCAGACCTTCTTTCCCGTGAAACCAGTATTTGGCGCCATATATAAGCCTGGTTAAATTGGTCATCT
AAAGCTGTCAAATAAGACATTCTGTGAAAGGTAAACATCGAAACTGGTTATAAGTAAAACCATCAAGCCAACAAC
AGGGTCTTGAGATAACCTTTGAAGCTTATTGTACTGGCCTGCACCAGAAGATGTCTGCATTACTCATTGCTAAAA
ATGTGTAGCACAGAAGTGCCTAGGATTAATTTGTTTACAAGAAGAAATTTAAACTCTACGTTTGGTTTTTCACAT
ACAGCAGCTCTATTGAATAACATGCATCTGAATTTTAAAGTTGCAAAGGTATCTGAATAATTTTTCATGTGCATCT
TTTGTGCAATGTTTTGGTTCAAGAAAGAATGTTTAAAGCTTTTTTAAAGACTTCAGTTCTTAATGTAAGTGTACC
CTTCTGCATGGAATAATCATAACCAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCGCCACTTGCAGAGGGC
TGCTTTATCATATTGTACTTGGGTGTAGGACTCTAGTGTCTTGGGTGTATTGCATGGGCTGCATTATCTACAGC
ATTGTACAATAACAAGTAAAGGCAGTATACTTCACTGATGCTTGTCTGGTAATAATCACTTCTGTGTTATAA
TGGAAGGTTTTTTGTGATGTATGAAACTTGTGTTTTTATATATAAATGAGTATAGTTAGTGTGTTGGTAATGCC
TGTTTTCATCTGTAAATAGTTAAGTATGTACACGAGGCACTACTTCTGATTTATTGCAATGTTTCACTAGTTT
TTACTTTTATTCTTAAAGCATTAGTTTTGCTTTCAATTTTATGTACCTTAGTTCTGAGTTAGACCTGCAGATGT
GTACAGATAGTTTATATTTATGTATTGCACATAATCATGCTATTTCAGCATTGATGCTATATTGTATTATGTAAT
AATAAAGCCATGTACAGAGGGAAA

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FIGURE 1170

MAQETNQTPGPMLCSTGCGFYGNPRINGMCSVCYKEHLQRQQNSGRMSPMGTAAGSNGSPTSDSASVQRADTSLNN
CEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVSEPVVVTQPSPSVSQPSTSQSEEKAPELPKPK
KNRCFMCRKKVGLTGFDRCGNLFCGLHRYSDKHNCPTYDYKAEAAAKIRKENPVVVAEKIQRI

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FIGURE 1171

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACCTCTGAAGCAAG
CTCCGGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGGCAGAGTGAAGAGAAGCCCGTGCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MTTTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPEPTEQPVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFDLKGEGDIHENVDTDLPGLGQSEKPVPAAPVPSVPAPVPVSRRNPPGKSS
LVLG

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FIGURE 1173A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCCAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGTACCCGTGGGCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTTCATAGTGGAGCCTACAGAGAAATTTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTTCTCTACGGGAAGAAAGTGGAGGGAACTGCCCTTGTCTATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGTGTTGGACGGGGTGCAGAACCTCCGAGCAGAAGACCTGGTGGGGAAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTGGACCTCATGGTGTTCGTGACGAACCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCCAGCCAGAAGCCCTTGAGCATCACGGTGCACGACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTTCCTCCTGCGAATGGAC
CGCGCCACAGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCCGCCCAGGACCTGGTGGTGTGCCCCCTGTCCATCACACCGACTTCATCCCTTCCCTTCCGC
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACACAGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCCCTACTCTGTTGTTGAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAACTACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTACACAGCAGACCGTAACCATCCCCCCTAAGTCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCCGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAACTGTGGCTGTTTCGACCCCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAAAT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCACGGTCAICGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTGGCCCTAGAGAAGCGGCAGGGGGCCTTGGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTCGGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTGCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAAGAGAAAGACATGGCCCTCACGGCCTTGTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 1173B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTGCGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAAGCTGTACCCGGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTACCCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTTCAAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCTGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTTGACCCACACCCCCATTCC

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FIGURE 1174

MGPTSGPSLLLLLLTHLPLALGSPMYSIITPNILRLESEETMVLEAHDAQGDVPVTVTVHDFPGKKLVLSSEKTV
LTPATNHMGNVFTTIPANREFKSEKGRNKFVTVQATFGTQVVEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIF
TVNHKLLPVGRTVMVNENPEGIPVKQDSLSSQNQLGVLPLSWDIPELVNMGQWKIRAYYENSPPQVFSTEFVK
EYVLPSEFVIVEPTEKFYIYNEKGLEVTITARFLYGKKVEGTAFVIFGIQDGEQRISLPESLKRIP IEDGSGEV
VLSRKVLLDGVQNLRAEDLVGKSLYVSATVILHSGSDMVQAERSGIPVITSPYQIHFTKTPKYFKPGMPFDLMVF
VTNPDGSPAYRVPVAVQGEDTVQSLTQGDGVAKLSINTHPSQKPLSITVRTKKQELSEAEQATRIMQALPYSTVG
NSNNYLHLSVLRTELRPGETLVNFNFLRMDRAHEAKIRYYTYLIMNKGRLKAGRQVREPGQDLVVLPLSITTFD
IPSFRLVAYYTLIGASGQREVVADSVWVDVKDSCVGSLLVKSQSEDQPVPGQOMTLKIEGDHGARVVLVAVDK
GVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGKDYAGVFS DAGLTFTSSSGQOTAQRAELQCPQPAARRRRSVQL
TEKRMDKVGKYPKELRKCCEDGMRENPMRFSCQRRTRFISLGEACKKVFLDCCNYITELRRQHARASHLGLARSN
LDEDIIAEENIVSRSEFPESWLWNVEDLKEPPKNGISTKLMNIFLKDSITTWEILAVSMSDKKGICVADPFVTV
MQDFFIDLRLPYSVVRNEQVEIRAVLYNYRQNOELKVRVELLHNPAFCSLATTKRRHQQTVTIPPKSSLSVPYVI
VPLKTGLQEVEVKAAYVHHFISDGVKSLKVVEGIRMNKTAVRITLDPERLGREGVQKEDIPPADLSDQVPDTE
SETRILLQGTPVAQMTEDAVDAERLKHLLIVTPSGCGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKROGALELIK
KGYTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAVNLIAIDSQVLCGAVKWLILEKQKPDGVFQEDAPVI
HQEMIGGLRNNNEKDMALTAFLISLQEKDICEEQVNSLPGSITKAGDFLEANYMNLQRSYTVAIAGYALAQM
RLKGPLLNKFLTTAKDKNRWEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVRWLNEQRYGGGYGSTQATFMV
FQALAQYQKDAPDHQELNLDVSLQLPSRSSKITHRIHWESASLLRSEETKENEGFTVTAEGKGQGTLSVVTMYHA
KAKDQLTCNKFDLKVTIKPAPETEKRPQDAKNTMILEICTRYRGDQDATMSILDISMMTGFAPD TDDLKQLANGV
DRYISKYELDKAFSDRNTLIIYLDKVSHSEDDCLAFKVHQYFNVELIQPGAVKVYAYYNLEESCTRFYHPEKEDG
KLNKLCRDELRCRAEENCFIQKSDDKVTLEERLDKACEPGVDYVYKTRLVKVQLSNDFDEYIMAEQTIKSGSDE
VQVGQQRITFISPIKCREALKLEEKHYLMWGLSSDFWGEKPNLSYIIGKDTWVEHWPEEDECQDEENQKQCQDLG
AFTESMVVFGCPN

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FIGURE 1175

GGCGGCGGTCCCCAGGGGGCGGCGGCCGCGCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTG
AGGGCGCGGAGGCCCATGAAGCTGTACAGCCTCAGCGTCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGC
CGCATACGATGTGTCTTCCTTCAGCTTTTTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACT
GATTGTGGAGCGCTCATCGAAAGGCACTAGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCG
GAATGATAGTCTTGACAGGTGTGGTCATTGCTGACAATGAATACCCATCCCCGGGTGGCCTTTACCTTGCTGGAGAA
GGTACTAGATGAATTCTCCAAGCAAGTCGACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCC
AGCCCTGGATGGTCACCTCAGTAGATACCAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGA
AGTATGAGACCAAAATCATTCTGCACAACACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGT
GTCCAAATCCGAGGTGCTGGGAACACAGTCTAAAGCCTTCTATAAACTGCCCGGAAACAAAACCTCATGCTGTGC
CATCATGTGATGCAGCCTGCCAGAGGCCCAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCCTGG
AAAAGAAGAGACAGCCATAGACGAGGAGCCAGAGTGGGGGCAGACTGGCCATTTTTATTTTGAAGTTCTTGGCAG
AAATGGATGGTGGAAGGGTGGCGAATGTTCAAATTCATATGTGTGGTAGTGATTCTTGGAAGAATTTGAGGTCC
CCAAAGGTGTATTTTTGGGCAAATGAAACCATAACTCCGACTGGCTTCTGTAGATGCCAAAGGGCTCTTTTTCA
GCTAACCTGGGAAGGCTCTGTGGGAGGGAGGTGCGAGCCAGCTGTTTCTCGATCTTTGGTATATCTTTGGATCT
TATTTGTACATTAATGATATTAACACTCCAGTGGGGGGTGGGGAGTCCCTGATGCTAGGGCTGGGGTGGGTGGAG
TTTGAAGACTCTTGGGAAAGCCTCTCCTGGGGCCACTGTTGGGGGTGGGAGTGAGCCACCACAGAGGCCACAGG
CAGGCCCCCACTTCAGGCCCAAGGCCTGGGGCGGGGGGAACAGTCACTGGGTCTCAGATTCTGAGACTGTTGTTT
AGCTTACCTTTCTGCTAGGATTGGCTTCCCGCAGAGGGCAGGGCCCATCCTAAGCAGCTTCCAAGTCCCACAAAG
GTGGCTTGTGGGAGGATTTGGAAGGAGCTGCATTGTGGGCGGGGAGTGTGTGGGTGGGTTCGTACCAGCAAGTA
GACTAGGAAGTGAAGCCAGGAAAGGGGGATGTTTTCTGGTGTGTTGGATGGTCAGCTGGGAGTGTCCATCATCAG
GGGAAGATCAAACACAGGTGCACTCAGCTGCCAGGGCCTCTGGGACACTTGCCTTGACTTGCAACTTGCCTTGA
ACATCAGATCAAAGCAGCAGGTGCTGTGGTCTCTCAAATTTGATTTTTATTTGACTCTGTGGCTCTAAGACTGC
CTTGAACCGCCTGAGGCCTATGCATCTGAACAAGTGGGTCTCTCCCTTGAGCACCAGGAGTGGGTGCCAGCCGGC
CCCGAGGATTCCAGCACCCACCTATGGTCTTGCCAGCATAGGCTTGCTAGTTCCTTCTTGGTCAGAGGTAGCT
GCAGAGGGGGGAGGCCAAGGGTTTGGTCTAAGCTGTGCCCTGCCACCTGGCAGGAGGCCCACTCACTGCCCAAGT
CATGGCAACAGGCTGGAGCAGCCCAGGAGATGGGCCTAAATGTTCTGGATCCCTTGGGTCTTAGTGTTATGTTT
CAGTCTGCCCACCTGTGCTCAGGATGCAGCCCTGGGATCCAGCACCCATGGAAGCTTCTGCTGGGATGGTGTAC
CTATGGGTTTTTGAACCAGTGTGGTATGGTCCTTGGGAGCTCTGCTCTGAGCTTGCCACACTGCTGAGAGCACCCA
CTGTCTTGACCAGAGTCTCAGTGGTCTGACCCCAATGTGGGCAGGGGCTGGGCAGGAGGGTGGGGTCTGCTGT
GGGTTTCAAGGACTCCACCTCCTGGCTGGTTTACCTGCTGCTGCCCATTTTCTCTGGGTACTGCTGGCCAGAGGA
CTTTAGCCTACCCCTGAAGAGCTGTCCATGTCAATTTTCTACTGCCATAGATACCTAAGCCCAGGGCCCCCTTG
AGGCCCAGACTCAGCCTGCCACTGGTGCCGAGACGGAGTGGAGTGGGCCTGGATCCGAGGGATGCTACCTCTC
CCTTTCCCACTTGAGGACCCTGGGGAGAGATGGGGCGGGGAAAATGGAGGTATGAATTTGGGGTAAGAGGAAGT
GAGATCTCCGCTTGCAAGTCAGCCCTGCCTTGAGGGCGGGCTGGCTTGACTCAGGCCCTGTGAGATAGAGGGC
CCAGCCCAGCCCCACCCACAGATCCCCTGCTCCTGTTGTGTTCTGTTGTAAATCATTGGCGAGACTGTATTTTA
GTAAGTGTGCCTAACTTCCTGTGTTCTATTTGAGAGGCGCTGTCTGGATAAAGTTGTCTTGAAATTTCAAAA
AAAAAAAAAAAAAA

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FIGURE 1176

MKLYSLSVLYKGEAKVLLKAAYDVSSF SFFQRSSVQEFMTFTSQLIVERSSSKGTRASVKEQDYLCHVYVRNDSL
AGVVIADNEYPSRVAFTLLEKVLDEF SKQVDRIDWPVGSPATIHYPALDGHL SRYQNPREADPMTKVQAELDETK
IILHNTMESLLERGEKLDDL VSKSEVLGTQSKAFYKTARKQNSCCAIM

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FIGURE 1177

CCCTAATCAAGTACCCCCCTCCTCCTCCACCACCTCCTGCCCCACCCCTCCCTGCATCTGGATTCTTTTTGGCATC
CATGTCCAGAAGACAATCGCCCTTTAACTGGACTTGAGCTGCAATTGCCGGAGCAAACTTAGGAAAGTGTCAGG
GATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGTGTGAAGTCCGCCCTCATCTAAAACAGATACAGG
CCGTGGAAATGGACCCCTTCCTTTAGGGGGTAGTGGTTTAAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAG
AAGAATTGCTGAAAAGGGATCAACAATAGAAACAGAACAAAAAGAGGACAAAGGTGAAGATTCAGAGCCTGTAAC
TTCTAAGGCCTCTTCAACAAGTACACCTGAACCAACAAGAAAACCTTGGGAAAGAACAATACAATGAATGGCAG
CAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGG
ACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCT
CATTGATGCAATCAGGCAGGAAGTGAAGTCAAACTACTGCATTAGAAGGAACAGACTAAGGAGAGATAGGACTTT
AATCTGGAGGAAAAATATCCTACAAACAACAAGTTCACAACAGCAAAACCCCTACATTTATGAGCTGTAAGAAG
AAAAATGGAGACAAAACAGAAGGAGGGAACCAACCTACTCTGAAAGCCTTCAGACATTATGACTCTGGTGATAA
GCTCTTTCCCTCTCCGTTTGCTGCTTTTTTCTGGCCTTTACAACAGAATGGAAGAGAATCATTTAAGAGTTCTCTG
TAACAGTTATGCAGAAAATACTAAAACCCATCAGGCAAGATCACCACGCATTGAAATATTTTCATATCAAGATAA
AGTCGCACATTTTCCACAATACATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTCTGCAGAGAGTGCT
GGTAAAGAATTGAGCAAGTTTGCTATTGTATTGTAATGTTTCTCTCAGGTTTGTCTTCTCATGTTTGATAT
TCCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATGTGGAACAAATGGAATTGTAAGTGCTTT
CAAAGGGTAATATTTATAAGAAAGTGTCGAAAAATGTTTCTTCAGCTTGAGAAATTTTAGAATGATAGGAAGTT
TCTCGAGTTAGCCTTCATGCAATTTTGTAGATTAATAACATAAAATTTGTCCAGAACTTAAAGATTTAGATGCCTT
CCTAAATTTGTTACAATGCTTTACCAAATCTATGACTTCTACATAACACAAACCAGTGGTCAAATGTAAACACTAT
ATTGTAGATTTACTGTAGGTTTTCAACCTTTTTTAGATTTATGCATGTGGACATTTTTTATAATGTAATTACAATC
ACCACAAGGTTAGCTTTTTTAATTGCAGACAGTAATGCATGTACACTAATATGTAGTGGCCTTTTTCAAGGCCTA
GTCCCAGGAAAAACATTTTGTAGAGTATAGGGGAGTGGGAGGAAGGGGAGGAATAATTTTTTATTTAAAGTTGAT
TTCTGCACTATCTTTTTCTCAGTTACCTGCATGAATAAATAATGAGAAATATTTTGTGACTTTAATTGGTAAATA
TGTTACAAAACCAAGTACTTAATCTTTTACATCATGTCTTCAGCTATTTGTATTTTAAACCAGTAATTTCAATGGT
CTGAAACATGATTCTGAGCTTCACATAATATCTTAACTGTGGAAGTCAAAAGTTTGATCACTGAATTTGGCAGTT
ATTATTACCTAGGTACCCCGCTGTTACACAGGTGTTTAGATACGTGTTCTCTGAATGAAGCTGCTTTTGAATTTT
GTTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTCACAGAAATCATTAGGTAAAGGAAAACCA
ATGAGGAGTTCTGCAGTTTTCTTTTAAATAAGTAAAGTGAGACTTGGGTGGTGGGAAGAAGGAAGGTGGGAAGAAG
GAATTAGACACTCTGCCTGCCACTCTGCGTGTGTGTGCTCTCGCGCACGTGCTGTCTATATGGAAGCCACTCCCT
TTCTTTTCTTTGAAACTGGTAAGGTTAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTTTTGGAAAA
TTAAGAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTGCCATATTTGCTTTGAACTCTGA
TTATCAGAAGTTTACTAAAACCTTTGAAATAATTCATTTTCTGCTTTCTAGATTTTGTACATCTCAGTCCAT
AAAGCAAAGCTTGTTGATAGTGTAGTTTTCTAAACGCTGCAAAATTTGCAGCCTTTACCACTACAAAGAAGTTTG
ATGAGGGATTTTTTTTTTCTTTGTCAAAATAGTTCTGTTTCTGTAGAAATTTCATTTTTAGATTAAACTGTGAT
GGATGGGCTATCATAATTCAAGTATACATTTCTTTTTCTATCAGATATTCATTGTCATGCAGTAGTAGTAAAAA
CATCAAAGATGCAGCAAGCTTATTAAGTATTATTTCTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTA
CTTTTGGTTATGCAAAACCTTTGATAATATAAACAGTTATGTCCCTATAAATCTGGTCAGCAACCTCTTTTGAT
TTTGTGGGTAAGTTAAATAGTCTGTAGTAGGTAGGACTGGGTACAAGTGGTCCAACTAAGATAAGAGACTA
AAATAAAATGCTAAATCTTAAAGAACTGGGTTTATGCACTAAACGTTTTGTGCCTTGGTCTAATATTAACATG
ATGTATGTGTAAACTGAC

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FIGURE 1178

MSEDNRPLTGLAAAIAGAKLRKVSRMEDTSFPSGGNAIGVNSASSKTDITGRGNGPLPLGGSGLMEEMSALLARRR
RIAEGSTIETEQKEDKGEDSEPVTSKASSTSTPEPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEG
LDYDRLKQDILDEMRELTKLKEELIDAIRQELSKSNTA

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FIGURE 1179

GTGGGGCTGGGCCCAGCCGGACGCGACCTCAGCCTGCGGGCGGCTAACTGCCGGTAGGCGTCTGTGTGCGCCGCCA
AGTCGGTGGGGCGGGGACGCGAGGTGTGGATGGGGGGTGCCTTGACCTCTGCCTCAGCCAGTAGCGCAGTCTCG
GCCTCGCCGTTACGGAGATGGTGCCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGGCTGCGACTGGACG
TGGGACGCGAGATCTGCCGCCAGTACCCGCTGTTCTGCTTCCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTC
TTAACAGGTATATTCATATTTTAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTCACATTCTACTGCTCACTAG
GACCTGATTCTCTCTTACCAAATATATTTCTTCACAATAAAATACAAACCCAAGCAGTTAGGACTTCAGGAATTAT
TTCCTCAAGGTCATAGCTGTGCTGTTTGTGGTAAAGTGAAATGTAAACGACATAGGCCTTCTTTGCTACTTGAAA
ACTACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCTCAGAGGTGGATATTCCATCTA
TTATAACCAAGAACTATTTAAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAGCCAGACAGAAAGTAAAAA
ATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCATGTTGCTTTGAGAAGTCGAAGAG
ATGAATTGCACTATTTAAGGAACTTACTGAAGTCTTTTTCTTATATTTTGCCTCCTAAAGCAACAGACTGCA
GATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTGTGTTCTTCTTCTTTGGATTTCTTAGCTGATC
CAGATACTGTGAATCATTGCTTATCATCTTCATAGATGACAGTCCACCTGAAAAAGCAACTGAACCGGCTTCTC
CTTTGGTTCCATTCTTGCGAGAAATTTGCAGAACCTAGAAATAAAAAAGCCATCTGTGCTGAAGTTAGAATTGAAGC
AAATCAGAGAGCAACAAGATCTTTTATTTCTGTTTTATGAAGTCTTCTGAAACAAGAAGGCGCAGTGCACGTGTTGC
AGTTTTGTTTGACTGTGGAGGAATTTAATGATAGAATTTTACGACCAGAATTATCAAATGATGAAATGCTGTCTC
TTCATGAAGAATTGCAGAAGATTTATAAAACATACTGTTTGGATGAAAGTATTGACAAAATTAGATTTGATCCCT
TCATTGTAGAAGAGATTCAAAGAATTGCTGAAGGCCCATACATAGATGTTGTGAAACTTCAAACATGAGATGTC
TTTTTGAAGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCCTATGTTCTGCCATAGTGATGAGT
ATTTTCAGACAACTTTTAAGAGGTGCAGAATCACCAACACGCAATTCAAATTTGAACAGGAACACACAGAAAAGGG
GAGAATCATTGGAATCAGCAGAATAGGTAGCAAAATTAAGGAGTATTCAAAGTACCACAATGGAGGGAGCTA
TGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGGTATTGTTGTAATGGAAGATGATT
CTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCCGAAACCTTGCTGCATGGAAAATTAGCATTCCATATGTAG
ACTTTTTTGGAGATCCCTCCTCTGAAAGGAAGGAGAAAAAAGAAAGAATTCCTGTGTTTTGTATTGATGTTGAAA
GAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTGGTCTGTCTATAGAAGATATCTTGAATTCTATGTAC
TTGAATCAAACTAACAGAATTTTCATGGTGCATTTCTGTATGCCAGCTTCCTTCTAAGAGGATCATTGGCCCCA
AAAATTATGAATTTCTTAAAGTCAAAGAGGGAAGAGTTCCAAGAATATCTACAGAACTTCTGCAGCATCCAGAAC
TGAGTAATAGTCAACTTCTGGCAGACTTTCTTTCCCTAATGGTGGGGAAACACAATTTCTTGATAAGATACTAC
CAGATGTAAATCTTGGGAAAATTATAAAATCTGTTCTGGAAGCTAATGAAAGAGAAAGGTCAGCATTGGAAC
CTTTTATCATGAATTTTCAATTAATTTCTGTGAGTCTCCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCA
GCCCTACTTCAGAAAACAACAAGAAGCTTTTCAATGATCTGTTTAAAAATAATGCAAACCGTGCTGAAAATACAG
AGAGAAAGCAAAATCAGAATTATTTTATGGAGGTGATGACTGTAGAAGGAGTCTATGATTACCTGATGTATGTAG
GACGGGTAGTTTTCCAGGTTCTGACTGGCTTCATCATCTCTTAATGGGAACCTCGAATCCTCTTTAAAAACACCC
TGGAATGTATACTGATTACTATCTTCAGTGTAACCTAGAACAGCTATTTTCAGGAGCACCGTTTGGTCTCACTCA
TAACACTTCTCAGAGATGCTATATTCTGTGAAAACCTGAACCTCGCTCTCTCCAAGATAAGCAAAAAGGAGCAA
AACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAAGAAACCAAGTATG
AAAGCATCAGACTTCTGTTTGATGGCTTACAGCAACCAGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTACCTCTGTGACATCTTGGATGTAAA
CACTTGGATTTGGTATAGAATAACCCATTGAAATTTCTGCTGTGCGAGGGTGGTAGAAATTTACTTTTTTGGGTA
TATCTTATATATATTATGTACATCGCTGTCTGAAATTTTAGTTATTTTTTGTTTTTAATAAAGACTAACACAAA
CTTAATGATTAAAGTGAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGT

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FIGURE 1180

MGQKLKQRLRLDVGREICQYPLFCFLLCLSAASLLLNRYIHILMIFWSFVAGVVTFYCSLGPDSLLPNIFFTI
KYKPKQLGLQELFPQGHSCAVCGKVKCKRHRPSLLENYQPWLDLKISSKVDASLSEVDIPSIITKKLLKAAMKH
IEVIVKARQKVKNTEFLQQAAL E EYGP ELHVALRSRRDELHYLRKLT ELLFPYILPPKATDCRSLTLLIREILSG
SVFLPSLDFLADPDTVNHLLIIFIDDSPPEKATEPASPLVPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFM
NFLKQEGAVHVLQFCLTVEEFNDRILRPELSNDEM LSLHEELQKIYKTYCLDESIDKIRFDPFIVEEIQRIAEGP
YIDVVKLQTMRCLEAYEHVLSLLENVFTPMFCHSDEYFRQLLRGAESPTRNSKLN RNTQKRGESFGISRIGSKI
KGVFKSTTMEGAML PNYGVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLA AWKISIPYVDF FEDPSSERKEK
KERIPVFCIDVERNDRRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLP SKRIIGPKNYEFLKSKREEF
QEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLGKIIKSVP GKL MKEKGQHLEFFIMNFINSCEP
KPKPSRPELTILSPTSEN NKKLFNDLFKNNANRAENTERKQNQNYFMEVMTVEGVYDYL MYVGRVVFQVPDWLHH
LLMGTRILFKNTLEMYTDYYLQCKLEQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMNYPD
LLVKCIGEETKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

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FIGURE 1181

CCTGCTCTGTAGAGCCGGCGGCAACCGGGTAGCTTGGCCAGGTTGTGAGGAACCGCAGCGCCCGCAGGACCGGGC
CGCTGAGCCTGCAGCCGCCCCGCGCCGTGACCTGCGACCCTAGACCCCGACTACCCTTTGGCTCAGCCCGCGCGC
CCCAGGCCCCGGCCCCGGGCGGCGGACGGGAGGATGAGCGGCGGGCGGCGGAAGGAGGAGCCGCCTCAGCCGCAGC
TGGCCAACGGGGCCCTCAAAGTCTCCGTCTGGAGTAAGGTGCTGCGGAGCGACGCGGCCTGGGAGGATAAGGATG
AATTTTGTAGATGTGATCTACTGGTTCGACAGATCATTGCTGTGGTCCTGGGTGTCATTTGGGGAGTTTGGCCAT
TACGAGGGTTCTTGGGAATAGCAGGATTCTGCCTGATCAATGCAGGAGTCCTGTACCTCTACTTCAGCAATTACC
TACAGATTGATGAGGAAGAATATGGTGGCACGTGGGAGCTCACGAAGGAAGGGTTTATGACCTCTTTTGCCTTGT
TCATGGTCATTTGGATCATCTTTTACACTGCCATCCATTATGACTGATGGTGTACAGCTCCCAAGTGCTCCCTAT
CCAGTCCAAAGGACCCCTCTTGATTACAGCACAGGAACCTTGATCGTTGGGGAACCCAGCCCTTGGAACTTGGAA
GACCCGTGTTTCTTGGACCGCGAATCAGTGTGTTGGGCATCAGTGTCTTCTGCAAGGGTTGTGACCTGAAACTTT
TTAAAAACCAACCCACCTTTGGGGAAGCATTCTGAATTTATCCATCACCAACCATTCTTCTTGGATACCATCAA
GTAACAGCTATTATTTGCCAAGTGGAGCTGTCATTTAATTTGATGCACCTCTGGATTGAGATGAAACATTAAATT
GTCTTCCTCGATTCTCCATCGGGTGTAGAGTTTTTAACTATCAATGGCATTTCAGTCTTCTGAAACAGCATGG
CTGTATGTGCGTGGTCCATAGCACAGTACATGCAGCATCTAATAAGAGTTTCCATTGTAGAATGTTTTCACATAC
TTGAATAAATCAAATCTTTAATTGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1182

MSGGRRKEEPPQPQLANGALKVSVWSKVLRSDAAWEDKDEFDVIYWFRQIIAVVLGVIWGVLP LRGFLGIAGFC
LINAGVLYLYFSNYLQIDEEYGGTWELTKEGFMTSFALFMVIWIIIFYTAIHYD

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FIGURE 1183

GGGGGGGAGGACTGGGTGCGCCTGCAGGGATCGGAAGCCGGTTGGGGTGTGAGAGGTTTTCTCGCTCTAGGGAGA
TTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAAC
TCATTGAAAAGCTAAAGAGGCACCATTCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATTGTTGCATATGGAT
TATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCT
TTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGAATTCTGGGCAAACCTGAGCCTTAGA
AGAAGAGATGCTGTCTTGGTCTTGGTGGAGGAGCTTGCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTAT
TGTTGGAAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGG
CTTGATTTGCTTGGTGACCGAATTACTAGTGACTAGTTTACTAACTAGGTCATTCAAGGAAGTCAAGTTAACTTA
AACATGTACCTAAATGCACTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTTAAGATGAACTTAGTTCTAA
AGAAGATAACAGGCCAATCCTGAAGGTACTCCCTGTTTGCTGCAGAATGTCAGATATTTTGGATGTTGCATAAGA
GTCCTATTTGCCCCAGTTAATTCAACTTTCGTCTGCCTGTTTTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCC
AAAAAGTGCATGGAATATAACTTGTAAAGCTTCCCACAATTGACAATATATATGCATGTGTTTAAACCAATCCA
GAAAGCTTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACCAACTGTAAACATGAGAATAACTTAAG
GTTCTAGTTTAGTTTTTTTGTAAATTGCAAATTATTTTTTGCTGCTGATATATTAGAATAATTTTAAATGTCATC
TTGAAATAGAAATATGTATTTTAAGCACTCACGCAAAGGTAAATGAACACGTTTTAAATGTGTGTGTTGCTAATT
TTTTCCATAAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGGTTAATGACTTATGAGCAAGC
TGGTTTGGCCAGACAGTATACCCAACTTTTATATAATATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTC
TAATCTGAATTTGCATTCATGGTGTAAACATGGTATATGTATTGTTATTAAAGTAAAGTGACCCATGAAAAAAA
AAAAAAAAAAAA

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FIGURE 1184

MSTDIGVSLPSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLKSRGNTKMSIHLIHRVAAQGFVVGAM
TVGMGYSMYREFWAKPEP

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FIGURE 1185A

CCCCGACTAGCCCGACAGTCCCCGACTAGCCCGACAGCCCCAGCAGGATCTGCATCGTCATCGAGCCGGCCAGC
TTCTGAAGGGAGATGTCATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCATTTTCCGCC
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTCGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGTCTGTGACGAGTACTCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGCGTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTTACGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCTCGGAAGGGCCTCAGTCGGCCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAATCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCCTTGGCATGGACGGCCCCCTATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGCTACT
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC
GGCTGGTGAGCCGCTGCCCTGCAGACAATCCTGGCCTCGTCCAGGCCCAGCCCAGAGTGCCACTACCCCCACCC
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCCAGCAAAGCGTTCAAACCCAGGTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGGCCAGAGCTGAGCACAG
GCCCCTCCCCAGGCTCGCCCCACCCCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGGCAGCTGCCCTTCTCCAAATGTGCATGGGGAAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAAATTT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCTGTGTCTCCAGAGACACCGTATGTGAAAAACAGCGC
TGCGCCATCCTCCGTTAGCCCCACCTGAGCCCCCGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTACAGAGGCTTTTGCTTCTTCTGCAACATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCCATGGTTTCCC
TGCTGGGGAGCGGCCGGCCCCACCGGAAGTCCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC
TGTCTGTCTTCCCGCCGTCAGAGCTCCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCCGAGG
AGGACCTGGGGGCTTGTGGCCAATTCTCATGGAGCGTACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCCCACTTTCTCACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCTGCCCAGGAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC
CAAATGTCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAACTTG
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTATTGTTGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCACTCCTGCAGCTGAACAAGAAAGCTGGAGATTGGCCAATGAACCTGTC
GGCACTTTTTGATCGAGTGTACCCCGAAGGGAGTGCAGTTGAAAGGGTGCTCGAATGAACCATATTTGGGAGCC
TGACGGCTTGGTGTGCCAGCATTCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTGTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTCAGCCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC
CACAAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTGTGGCCCGGAAGCAGGGCAGTG

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FIGURE 1185B

[illegible]

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FIGURE 1186

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDPLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVPAQVHVN
GDAALKDRETDILDDDEMPHHDLSVDSLGTLSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTLPD
LGLGMDGPYERERTFGSREPKQPQPLLRKPSVSAQMQAYQSSYSTQTWVRQQQMVVAHQYSFAPDGEARLVSR
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPDQVVNGAGPELSTGPSPGS
PTLDDIDQSIEQLNRLILELDPTFEPITHTMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRKLSLGQYDNDAGGQLPFSSKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPQDLDIIDGRILSSKES
MCSTPAFFVSPETPYVKTALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESSPKPMVSLGSGRPTGSPLSAEFSGTRKDSFVLSCFPP
SELQAPFHSHELSLAEPPDSLAPPSSQAFLGFGTAPVGSGLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTVA PGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGVSVPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLKDKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLECTPKGVRLKGCSNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSVEMESLTGHQAIQKALSITLVQEPPPVSTVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWIKDGPSSKVFGEFVARKQGSATDNVCHLFAEHDPEQPASAIVNFVSKVMIG
SPKKV

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FIGURE 1187

GGAAAAGGAAAAAAAAATTAGCTTTATACCTCTTCCTGGTCTCAACCGGCCAGGAAATTTCTGGAACACTCCAAAT
TCAGTGGAATTAAATCCAAAACAAAATTTTATAAGGTTTAAATACTTTTCACTTCTTATAGTAATAGTATACTT
TAAAAAGCCTCAGGGGTATATTATCTTCTAAACAGCTTACAATTCCAGTGCAGCTACATTAAACCACTATGTTCT
CTAGTTGAGAACAACCTAGGCCTATTTCACTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCTG
TAGAATTACACTGAATTGTAAAAACCATTCGTTTTTTGTTTACAATTGCCAAAAATCTCAAAAGGCCCTGTATTTA
TGTAATTCTTTGAAATTATTATTTTATTTTAAATTTCTCAGTTATTGACTGGCTGGGTGTGACTTAGTACATAAGT
ACTCAATATTATAAAAAACCTCAAATAATTGACTTGATTTTACACAACATCCTTCCCTTTTCTACAAGTTAATTTT
TTTACAAATCATTTGGGTTATCTCCTAAATAGGTTATATTTTATTGCTTCTAGAAACAATGTTTCAAATATATG
TGCATTATCAGTAATAATTTGTATAAATATTTCCCAACAATTTTCATAATTTTCAAAGACTAATTTCTTGACT
GAAGATATTTTGCTAGGGAAGTGAAACTTTTAAATTTTGTAGATTTTAAAAAATATTGTTGAATGGTGTGTCATGCA
AAGGATTTATATAGTGTGCTCCCACTAAGTGTGTACAGATCAGGACACATATTTTATAGACATCTAAGTCTGTAGC
TTAAATGGAGGTTACTCTTCCATCATCTAGAATTGTTTACTTAGTAATTGTTGTTTCTTTTATTATTATAGACTT
ACTATCAGTTTTATTTTGCCAAGTATGCAACAGGCATATCACTAGTATATGAAAATGTAAATATCACTTGTGTAC
TCAAACAAAAGTTGGTCTTAAGCTTCCACCTTGAGCAGCCTTGGAACCTAACCTGCCTCTTTTAGCATAATCAC
ATTTTCTAAATGATTTTCTTTGTTTCTGAAAAAGTGATTGTATTAGTTTACATTTGTTTTTTGGAAGATTATA
TTTGTATATGTATCATCATAAAATATTTAAATAAAAAGTATCTTTAGAGTGAAAAAA

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FIGURE 1188

GKGKKISFIPLPGLNRPGNFWNTIPNSVELNPKQNFIREFKILFTSYSNSIL

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FIGURE 1189

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATCGCTGTA
GCTGCAGTAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTTCTGGGGGAATCAAAGAGAA
ATGTGCCTCATTGTCATTTGAGAAAATGCAGTCTGGTGTATTGAGTAAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCCTGGATTGACATTCTCATTAGAGAAACCT
ATTTCTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCA
AAGCCATACATATTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCTATGATAAGTTGAGAAACATCTCTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MAVAAVKWMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGRTIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

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FIGURE 1191A

GCGGCGGCCTCGAGGTGACAACTGTCTCCGTCGCAGGCTCCGGCGGGGCGCAGGAGGTGCCCCGGCGCGTCACT
GTCGGGTTCGGCGAGCCACGGGGGCCGCCGAGCACCATGCGGACCACCGTCAGCACTCAGCGCGGGCCGGTGTAC
ATCGGTGAGCTCCCGCAGGACTTCCTCCGCATCACGCCCACACAGCAGCAGCGGCAGGTCCAGCTGGACGCCCAG
GCGGCCCAGCAGCTGCAGTACGGAGGCGCAGTGGGCACCGTGGGCCGACTGAACATCACGGTGGTACAGGCAAAG
TTGGCCAAGAATTACGGCATGACCCGCATGGACCCCTACTGCCGACTGCGCCTGGGCTACGCGGTGTACGAGACG
CCACGGCACACAATGGCGCCAAGAATCCCCGCTGGAATAAGGTCATCCACTGCACGGTGCCCCCAGGCGTGGAC
TCTTTCTATCTCGAGATCTTCGATGAGAGAGCCTTCTCCATGGACGACCGCATTGCCTGGACCCACATCACCATC
CCGGAGTCCCTGAGGCAGGGCAAGGTGGAGGACAAGTGGTACAGCCTGAGCGGGAGGCAGGGGGACGACAAGGAG
GGCATGATCAACCTCGTCATGTCTACGCGCTGCTTCCAGCTGCCATGGTGTATGCCACCCACAGCCCGTGGTCTCTG
ATGCCAACAGTGTACCAGCAGGGCGTTGGCTATGTGCCCATCACAGGGATGCCCGCTGTCTGTAGCCCCGGCATG
GTGCCCGTGGCCCTGCCCCCGGCCGCGTGAACGCCACGCCCGCTGTAGCGAGGAGGACCTGAAAGCCATCCAG
GACATGTTCCCAACATGGACCAGGAGGTGATCCGCTCCGTGCTGGAAGCCAGCGAGGGAAACAAGGATGCCGCC
ATCAACTCCCTGCTGCAGATGGGGGAGGAGCCATAGAGCCTCGCCTCGATGCCGTTTTGCCCCCGCTCTTTGGA
CACGCCGACCCGGCGCTCCCCAAGGAATGCTGTCCCAACAAGATTCCCGTGAAAGAGCACCCGTGTGCCCCCTC
CCGTGGACTTCTGTGCCGCCCCGTCCACACCTGTTCTTGGGTGCATGTGGGTTTTCGGTTTCTGGCGGTCCAGGA
CGGGGCGGGGGCTCCCTCCCATCTCGTGCTGGGAGGTCTCAGCGCGCTCTCCTGTCCCTGGGACGTGCGTCTCT
CCTTCTCATGCCGTTCTTGAAAAATGCTCTTGCTGTAGAGAGCAGCTGCTTCTGCCAGGGTGTGGAGGTGGTGG
GCGCCTTCCGATTCCATTTCATGGCATTCTTGTGATGTGATGTAATTGGAATAGAGCTGTTGATTTAAGGCACACAC
AATCCCTCACACTGTGGGTTTTTTTTAGAACTTCCAGACGAAAACCTCACGCCCTTGCCCTAACCGCGCTTTGCTG
TGAGCCTGGCCCCCTGCCCAGGGCTTGGGTCTGGTGAGCTGAGCAGCTTCTGTGGATGGTGTGGGGCCGGCCTCT
GGCCTGGCTCACCTGGCCACTGTCCAGCCAGCCTTGTGACAGACTCCGGCCTGAAGGCAGAATGAACCCACACCT
GGAGTGAGGAAGGGGGCTTGGCACGGTTGGCCAGGCTCTGCCTGATTGCCAGCCAGCGGGCATCTGAAGCCGGGT
CCTTCGCCCCCGGAGGCTGCCGTCCGTCTCTCCTGCTGCGCTCGTGCCAGCTCCGTGGGTGTCTCTCCAGGGAG
CTTCTCTTCTCAACAGGCCTTGCGAGGCTGGGGTGAGAGGTGATAGAGGCAGCACTGTGCATGATTCCGAGAGGG
TGTGGTGGCACTGCCAGCCGACTGCTGACAGCTTGGGAGCTGCTGTGCCAGGACGTGGGTTACAGCGTGGGCGAG
GAAAGCCTGGCGAGCGTGGCCCTGTAAAGCTTTCTGAGGCGGGAGGCGCTCACTTACCTCTGACTGCCCTGGGCG
CTGCGTGTAGCATCTTGGCTACAGGACAGATTTTAGGTGACACCTGGTTATGACAGTCAGAAATTTGAGAAGCT
TCTCACAAGTGATGCACCTTAAATAATCTGCATGCCATTGAGACACCTGCATGTCTGGTGTGTGGTTCAAGTG
TCTTGCCGCGGGCCTTCGGATGTAAACCCACTGATAACGGACAGAAAGAGAATGCCACAAGTGGGTCTTCTGTG
GAAGATGCAGAAGGAGGAAGTTAGTGCTTACATTTTAGTCTTTTTCTCCCTCAAAAAAATAGGTTAAGTTTCACT
GCCAGCTAGAAAATACTGCTTTCTGCCATCGATTGGGGGTGGTTTTTGTCAAATATACTGTTGATAAATATTTAT
TTTTGTAACTTGAAGTGTGTGGTGGCCGTGGGGGAGGGACATGCTGGCAGCAGGCGCCTTCTCAGCTGTGGGT
CCTAAAGGCCTTTGATCCTTTGAAGAAGAAAGACATGGTATTTGTTTACAGCAGACGCCGACCACTCAGACGGAGGG
GCCCCCTGGGATTCCCTGTCTCAGATGGCCTGGTCTTACGCTGTGTAGATTTCTTCTCCATTGGGAATGAAGGTG
TCAGGCGGGACTGGAACGTTCTAGATGGTATGTTCCGTGATATTAACAACCTCTAACCAGGACAGACCACAAGCC
ACACTCAGAGGCCTCACTGTGCTGGGGGCTTCGGTGTCCAGGCGCCAGGTGTGGCCACCAGCACCAGGTTTCTGC
CTTCGCGTTGCTGGGGTGCAGTGAGACTGCCACACGCGTGCACATGTGGCTCTGTGGGTGTCTCTAGAGAGGAC
GTGGCCCCCTGCTGCCAGCCCTTGAGCAGCCCGTGTGGGGGCCGAGGGACCCACACAGTGGGGGCCAGCCTCGCT
GGAGGGAGAGCAACCCCTTGCCGATGACCACGCTTGCCGCCATCTCTTAGTTTTCTTTTTTACAAAGCGCTTTATT
TTTTTAATAGACAAATCACATTTTGCAAGGCCTTTAATTAATAAGATTCTTCTTCTCCTTCAATTTATGCTTTAT
TTCCTGTTTGAAGGCTTACTGTAGAAGTGGCTTACTGTAGAAGCAGCTTGCTGAGCCCCCTCCGAGCGGTCCCCAG
AATTAGCTGGTTACAACCCCCACCCTCCCCCGCCCCGCTGTGTACAGGTGTGGATGAGGTGCTCACACTCAGA
AGGACAGGCTTGTCTGCCAGCTCACAAGGGGAGGCTGCAGTGGGTTTTGGGAGCTGGGTTAGGCCCTGGTGTCT
GAGGGCCCAGGCCTTGCCAGCCTCTGCTGCTCCTGCTCCTGGGTTTTGAAGATGCAGGCCGATCGCCAGCTCCGTG
GCAGCGGTCACTAAGGACAGCCTGACTGTGCCATCTTGGAGCCTCAGGCGGGGCTCCGGAGATAGAAGACAGGTC
GCCGGAGGCTCCCCCTCCTCTCCTCTCCCTCTGCAGATGCTCCCTGGGCGCTACCTTCAGGGTGCCAGGCAGG
AGTGGTCTCAGAACGTGCGCTTCTGATTATTTTACTGGGGTCCATTGTCCAGATTTTTCTTTGATTGTAAATAT
ATTTTTACTTTTTAGTCTTCTAATTTAATAAATGATCCATATAAAAAATAGAGAAATAAGTCCTTTAAGGGAAGG

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FIGURE 1191B

TTTAAAAAAAAAAAAA

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FIGURE 1192

MATTVSTQRGPVYIGELPQDFLRITPTQQQRQVQLDAQAAQQLQYGGAVGTVGRNLNITVVQAKLAKNYGMTRMDP
YCRLRLGYAVYETPTAHNGAKNPRWNKVIHCTVPPGVDSFYLEIFDERAFSMDRIAETHITIPESLRQKVEDK
WYSLSGRQGDDKEGMINLVMSYALLPAAMVMPPQPVLMP TVYQQGVGYVPITGMPAVCSPGMVPVALPPAAVNA
QPRCSEEDLKAIQDMFPNMDQEVIRSVLEAQRGNKDAAINSLLQMGEET

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FIGURE 1193

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTCCGTCCCTGA
GGCCCGTGGAAGGAGTCAAACCTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAA
GCTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAA
AGAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAA
TGAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGA
GGCCAAAGCAAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAG
GCATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAAACAACTTAT
AGTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATA
TTACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTG
TTGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTTGTTTATTGTATTTTGAACCAATCTACAA
GTCTCTGTCTTTTAATAAAAGAACTTTACACATTTGTAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAG
GCTAAGTAATATGTGAATATCATATTTTGAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTT
GTGAAGGATGAAAGAAAGTCAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTAGTATTT
TCTATATTCTAAAATTAACACACATTATTATAGCTAGAATATAAAAGTTTTATAAAAAAAAAA

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FIGURE 1194

MKSCQKMEGKPENESSEPKHEEHPKPEEKPEEEEEKLEEEAKAKGTFRERLIQSLQEFKEDIHNRHLSNEDMFREVD
EIDEIRRVNRNKLIVMRWKVNRRNHPYPYLM

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FIGURE 1195

GTTCGCGGGTGGTTGTTGCTCTCGGGGCCGTGTGGAGTAGGTCTGGACCTGGACTCACGGCTGCTTGGAGCGTCC
GCCATGAGGAGAAAGTGAGGTGCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCCCTAAATCACCTTCGGGAA
ATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGTTACAAAGAACTGAGGTGGTAAAGAACATATCAAGGAA
CTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATCAAAAGCATATCCGTCTGTCAGAAA
GAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTTCAGGAAGAAGGAGAGACGACCATCTTGCAACTA
GAAAAAGATTTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAGAAAAACAGGAAGTGAAGCTACTT
CAAGAGCAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCACTATGATATTGACAGTGCCTCAGTGCCGAGC
TTAGAAGAGCTGAACCACTTCAGGCAACATGTGACAACCTTTGAGGGAAACAAAGGCTTCTAGGCGTGAGGAGTTT
GTCAGTATAAAGAGACAGATCATACTGTGTATGGAAGAATTAGACCACACCCCAGACACAAGCTTTGAAAGAGAT
GTGGTGTGTGAAGACGAAGATGCCTTTTTGTTTGTCTTTGGAGAATATTGCAACACTACAAAAGTTGCTACGGCAG
CTGGAATGCAGAAATCAGAAAATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGG
TTGCAAAATACCTGAAGAAGAAAAGAGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAGGTCCGGAAAGCG
CTGCAATTAGAAGTGGATCGGTTGGAAGAACTGAAAATGCAAAACATGAAGAAAGTGATTGAGGCAATTCGAGTG
GAGCTGGTTTCAGTACTGGGACCAGTGCTTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCCCTTTCTGTGCTGAG
GACTACACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAAAACTACTATGAAGTTCACAAG
GAACTCTTTGAAGGTGTCCAGAAGTGGGAAGAAACCTGGAGGCTTTTCTTAGAGTTTGAGAGAAAAGCTTCAGAT
CCAAATCGATTTACAAACCGAGGAGGAAATCTTCTAAAAGAAGAAAAACAACGAGCCAAGCTCCAGAAAATGCTG
CCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAACAGGAACATTCAAAGGCATTTATGGTGAAT
GGGCAGAAATTCATGGAGTATGTGGCAGAACAAATGGGAGATGCATCGATTGGAGAAAAGAGAGAGCCAAGCAGGAA
AGACAACTGAAGAACAACAAAACAGACAGAGACAGAGATGCTGTATGGCAGCGCTCCTCGAACACCTAGCAAGCGG
CGAGGACTGGCTCCCAATACACCGGGCAAAGCACGTAAGCTGAACACTACCACCATGTCCAATGCTACGGCCAAT
AGTAGCATTCGGCCTATCTTTGGAGGGACAGTCTACCACTCCCCCGTGTCTCGACTTCCTCCTTCTGGCAGCAAG
CCAGTCGCTGCTTCCACCTGTTTCAGGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTG
GAGCTCAACGGCAGCATCCTGAGTGGTGGGTACCCTGGCTCGGCCCCCTCCAGCGCAACTTCAGCATTAATTCT
GTTGCCAGCACCTATTCTGAGTTTGCGAAGGATCCGTCCCTCTCTGACAGTTCCACTGTTGGGCTTCAGCGAGAA
CTTTCAAAGGCTTCCAAATCTGATGCTACTTCTGGAATCCTCAATTCAACCAACATCCAGTCCTGAGAAGCCCTG
ATCAGTCAACCAGCTGTGGCTTCCGTGTGCCTAGACTGGACCTAATTATATGGGGGTGACTTTAGTTTTTCTTCAG
CTTAGGAGTGCTTGAAACCTTGGCCAGGTTCCATGACCATGGGCCTAACTTAAAGATGTGAATGAGTGTTACAGT
TGAAAGCCCATCATAGGTTTATGTTGCTCCTAGGAGACTTGGTTTTGACTTATATACATGAAAAGTTTTATGGCAAGA
AGTGCAAATTTTAGCATATGGGGCCTGACTTCTCTACCACATAATTCTACTTGCTGAAGCATGATCAAAGCTTGT
TTTATTTTACCAGTGTAGGAAAATGATTGACTATGCCCATCCCTGGGGGTAAATTTTGGCATGTATACCTGTAAC
AGTAATTAACATCTTTTTTGTAGGATGTTCAATTAATGCTGTAGCTATCATAGCTTTGCTCTTACCTGAAGC
CTTGTCCTCCACACACAGGACAGCCTTCTCCTGAAGAGAATGTCTTTGTGTGTCCGAAGTTGAGATGGCCTGCC
CTACTGGCAAAGAGGTGACAGGAAGGCTGGGAGCAGCTTTGTTAAATTTGTGTTTCTGTTTACACAGTGCATT
GCCCTTTGTTGGGGGTATGCATGTATGAACACACATGCTTGTGCGAACGCTTTCTCGGCGTTTGTCCCTTGGCTC
TCATCTCCCCCATTCCTGTGCCTACTTTGCCTGAGTTCTTCTACCCCCGAGTTGCCAGCCAGATTGGGAGTCTG
TTTGTTCATAGGGTTGAGCTGTCTTTGTGCTGGAGATCTGGAACCTTGCACATGTCACTACTGGGGAGGTGTTT
CTGCTCTAGCTTCCACGATGAGGCGCCCTCTTTACCTATCCTCTCAATCACTACTCTTCTTGAAGCACTATTATT
TATTCTTCCGCTGTCTGCCTGCAGCAGTACTACTGTCAACATAGTGTAATGGTTCTCAAAGCTTACCAGTGTG
GACTTGGTGTAGCCACGCTGTTTACCTCATAACGTACGTGTCCTGTTTTTAAAATATACAATTATTCTTAAAAA
TAAATTAAAATCGTATACTTACATTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1196

MRRSEVLAEESIVCLQKALNHLREIWELIGIPEDQRLQORTEVVKKHIKELLDMMIAEEESLKERLIKSISVCQKE
LNTLCSELHVEPFQEEGETTILQLEKDLRTQVELMRKQKKERKQELKLLQEQQELCEILCMPHYDIDSASVPSL
EELNQFRQHVTTLRETKASRREEFVSIKRQIILCMEELDHTPDTSFERDVCEDEDAFCLSLENIATLQKLLRQL
EMQKSQNEAVCEGLRTQIRELWDRLOIPEEEREAVATIMSGSKAKVRKALQLEVDRLEELKMQNMKKVIEAIRVE
LVQYWDQCFYSQEQRQAFAPFCAEDYTESLLQLHDAEIVRLKNYYEVHKELFEGVQKWEETWRLFLEFERKASDP
NRFTNRGGNLLKEEKQRAKLQKMLPKLEELKARIELWEQEHKAFMVNGQKFMEYVAEQWEMHRLEKERAKQER
QLKNKKQTETEMLYGSAPRTPSKRRGLAPNTPGKARKLNTTMSNATANSSIRPIFGGTVYHSPVSRLPSPGSKP
VAASTCSGKKTPTGRHGANKENLELNGSILSGGYPGSAPLQRNFSINSVASTYSEFAKDP SLSDSSTVGLQREL
SKASKSDATSGILNSTNIQS

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FIGURE 1197A

GCAGCGTGTAGTGCAGAGTGGGGCGGACGCGCGCAGCCCGCCCGCCGCGGACCAAGGAGTTGGCATCCTTTG
GAAGAGTTTCGTGAAAGCTTTCTGCCAGAGCTCCTGGACCAATGCATCTTCCCACCACCTTAAACCACTGAGCAG
TTCAGAGCCCCAGTTGCAGACGACTTGTCTGCTGCCACCACCATGAGTTCTGAATGTGATGGTGGTTCCAAAGCTGT
GATGAATGGCTTGGCACCTGGCAGCAATGGGCAAGACAAAGACATGGATCCTACAAAAATCTGCACTGGGAAGGG
AGCGGTGACTCTCCGGGCTCGTCTTCTTACAGGGAAACCCCAAGCAGTAGCCCTGCGAGCCCTCAGGAAACCCG
GCAACACGAAAGCAAACCAGGTCTGGAGCCAGAGCCTTCTTCAGCAGATGAGTGGAGGCTTCTTCCAGTGCTGA
TGCCAATGGAAATGCCAGCCCTCTTCACTCGCTGCCAAGGGCTACAGAAGTGTGCATCCCAACCTTCTCTTCTGA
CAAGTCCCAGGATGCCACTTCTTCCAGTGCCAGCCAGCCGGAGGTAATAGTTGTCCCTCTCTACCTGGTTAATAC
TGACAGAGGGCAAGAAGGCACTGCCAGACCTCCAACACCTCTGGGGCCTCTTGGCTGCGTCCCCACAATCCCAGC
GACTGCCTCTGCCGCTCACCTCTGACCTTCCCGACTCTAGATGATTTTATTCCCCCTCATCTGCAGAGGTGGCC
CCACCACAGCCAGCCAGCCCGCGCTCTGGCTCCTTTGCCCCCATTAGCCAGACGCCACCATCCTTCTCACCACC
ACCTCCGCTGGTCCCTCTGCCCCGGAGGACCTCCGCAGAGTCTCGGAGCCTGACCTCACGGGAGCTGTTTCGAG
TACCGATTCCAGTCCCTCTACTAAATGAAGTTTCTTCTTCCCTTATTGGAAGTATTCCCAAGCCTTTCCATCAGT
TAGCAAGCCTTCATCCGCTATCCCTCCACAACGATTGTCAATCCTACTATTGTGCTCTTGCAACACAATCGAGA
ACAGCAAAACGACTCAGTAGCCTTTTCTAGATCCTGTCTCAGAAAGAAGAGTGGGAGAGCAGGACTCAGCACCAC
CCAGGAAAAACCCACCTCACCTGGCAAGGCTATTGAAAAAGAGCAAAGGATGACAGTAGGCGGGTGGTGAAGAG
CACTCAGGACTTAAGCGATGTTTCCATGGATGAAGTGGGCATCCCACTCCGGAACACTGAGAGATCAAAAGACTG
GTACAAGACTATGTTTAAACAGATCCACAACTGAACAGAGATGATGATTGAGATCTGTACTCTCCAGATACTC
ATTTTCTGAAGACACAAAATCTCCCTTTCTGTGCCTCGCTCAAAAAGTGAGATGAGCTACATTGATGGTGAGAA
GGTAGTCAAGAGGTTCGGCCACACTACCCCTCCCAGCCCGCTCTTCCCTCACTGAAGTCAAGCTCAGAAAGAAATGA
CTGGGAACCCCCAGATAAGAAAGTAGATACAAGAAAATATCGTGCAGAGCCCAAGAGCAATTACGAATATCAGCC
TGGAAGTCTTCCGTTCTGACCAACGAAAAGATGAGCTCAGCCATCAGCCCTACTCCGGAATTTCTTCAGAGAC
TCCTGGATATATATATTCTTCCAACCTCCATGCAGTGAAGAGGGAATCAGACGGGGCTCCTGGGGATCTCACTAG
CTTGGAAGATGAGAGACAAAATTTATAAAAGTGTCTTGGAAGGTGGTGACATCCCTCTTCAGGGCCTGAGTGGGCT
CAAGCGACCATCCAGCTCTGCTTCCACTAAAGATTGAGAATCGCCAAGACATTTTATACCAGCTGATTACTTGG
ATCCACGGAAGAATTTATTTCGAAGACGTCATGATGATAAAGAGATGAGACCTGCCAGAGCCAAATTTGACTTTAA
AGCTCAGACACTAAAGGAGCTTCTCTGCAAGGGGAGATATTGTTTACATTTATAAGCAAATTGATCAGAACTG
GTATGAAGGAGAACACCACGGCCGGGTGGGAATCTTCCACGCACCTACATCGAGCTTCTTCTCCTGCTGAGAA
GGCACAGCCCCAAAAGTTGACACCAAGTGCAGGTTTTGGAATATGGAGAAGCTATTGCTAAGTTTAACTTTAATGG
TGATACACAAGTAGAAATGTCTTTCAGAAAGGGTGAGAGGATCACACTGCTCCGGCAGGTAGATGAGAAGTGGTA
CGAAGGGAGGATCCCGGGGACATCCCGACAAGGCATCTTCCCCATCCTACGTGGATGTGATCAAGCGACCACT
GGTGAAAACCCCTGTGGATTACATGGACCTGCCTTTCTCTCTCTCCCAAGTCGCAGTGCCACTGCAAGCCCACA
GCAACCTCAAGCCCAGCAGCGAAGAGTCAACCCGACAGGAGTCAAACCTCACAAGATTTATTTAGCTATCAAGC
ATTATATAGCTATATACCACAGAATGATGATGAGTTGGAAGTCCGCGATGGAGATATCGTTGATGTCATGGAAAA
ATGTGACGATGGATGGTTTGTGTTGTTACTTCAAGAAGGACAAAGCAGTTTGGTACTTTTCCAGGCAACTATGTAAA
ACCTTTGTATCTATTAAGAGACTGAAAACCATGGAGATTATTTTTATTGGAGGAGGAAGCATCATTTCATGAACCG
ATCTTTTTAGTTGAGTCAGTAGGAAAATTAATACAGTGGATAAAGTAAGAAGCAAAAAGACAGGGACAGAGAAGTG
TTGTGTTTAAAACCCAAGCCTGTCTAAGGTTACTGTGTATTAGACAGGGCCGAAGTGTGCTGAGCAAAAAGA
ATTGAAGCAAATGTATTTACTTAGCCGCTTCTGGGAGCCACTTCAGCCTTTCCCTCCCTCCACTTCTTGGGT
AATCTGACCTGAAGCATAGTCCAGGAGCAGAGTTAGCCAGAAATGCCTCCTGCTGCCCCAGCCTTAGAGAGCTCC
CATCTCAATCATTGAGCCTGAAGGCTTCAAGCCCAAGAATGCAACAAGACCCCCAGCCTACATTTCTCAGCTCCC
CTGGAGCCAGCTGATCCTGTAACGCTGCTGGAGGTGAGTCTGAGCTACCAAGACTGTCCCTAGACAAAGGTGGAG
TCCCCCACACTGCCCAAGACCAAATCCCTCACTCAACCTGCTGAGGTGTTGGATGGGGAAACAGAGGCAAACTGA
GGCACCTGATGCATTACGCTGCTGTGCAGCAGTGCCATTGACTGCCCTGATGTTTCAAGAGAGAAACGCACACAAG
GTTTGGCCATGAGAAATGGGGAGCAGATGGCCAAGCAGATAGGTTATGTCTGTTTTCTGAGTGATGAAGTCAGGA
AGCCCTGTGGCTCTGGAGGCCACTTGTGGTTCACTTTTTCCCATATCCTTGGCTTTTAGAAATGGTTACCTTCA
GGACAGTGCAGCTGCATTTATCAGAGCACTATTGCTAAGTTTTCTTTCTGGCTTGTGTTTTCTGGGACAGTTT
AGAATTGGGAGGCCTATTCTCATAGAACACCAAAAATGATGTTTCAGTGATTCAATTAAACATACACCAATGTACTC

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FIGURE 1197B

TGGCTGCTGGGGGGACAACCATAAGCAAGACATGCCCAGGGTTTGCCGTGGCTCCAGATCTACTCCCTGTAGGAG
TTCAAGGATCACACAAACGGTAGTAACCAGGGTTGTGAATCTGAGTACACCCTGGCAAGGCTTCTCTTCAGACTG
AAGCAGCAATTCTGCCACTACCAGCAGCAACCAGGACGTCTGTTCTTTGTGGGGGCCAGATCAGAAGAGAGAGGC
CCCTGTGACGCCCCGGGCTGCTTGGTCACTCTGTCCAATTCAAGGATGTTTATCGGCCTCTCTTAGATCCTGA
GTGAGACAAATACAGAAATGACCCATTCCCTGCCACCAGAACTCAGAGGTGATTGGGGGAGACTGACACAGGAA
AATGAACCTTAATCAAGAGAGACTGTGATATGTGCTAAGAAGGGTGTGAGGGAGGGAGAGATGAATTTTCCCTGGA
GGGATCCTAGAAAGCATTGTCTATTTGCCATCTCCATTAGCTCACTTTTAAACAACCTAGGGTGTGGAAGAACCT
TTGTCTGAGGGTAGTTCATAGCTGGAAATACTTGGAATATTTTCCAGAGTCTCTAAACTCTCATCTTCCCCCACA
GATACACATCCAAGCTCACAAATAGGAGTAGCAATTCTAGGTGGTAGGGTTGTGTACGGAACCCCTGGCTGTCTG
CATATATCTCAGAATTACCCAGGACCATTGTCCCAAAGTCTAGAGTCTTTACAGGTAGGCAAAATTTGTTTTCA
ATGCCTGTGCCTCAGCTGCTGTCAAAATACCCATCTTAGGATCCCATCAGCTTCCCATCCCCACCAGACAGCC
ACAGTACCCTCACTTTCTCCCTATTGTTCTTTCAAATCCTGTTCTCAGGAAAGAACTGCCACTAATTCATTCAC
ACTAAGGTGTAAATGATTGATAATAGGAATGAGTTACCTCTTCCACAGACATTTGTTTTTAAGTATGACAGAGC
AGGGCCTTAATCCCAAGGGAAAAGGTTATGGAACCTGGAGGGGGTGAGCTTTCTGGGTAGAAGGAGACTTCTTGAA
TTTCTTAAACCCAGTAAGAGTAAGACCTGTTGTTTTGGAAGGTCTGCTCCACCATCTAAGAGCACTGTTTTTT
TTTTTTGTTGTTGTTGTTGTTTTACGGTCTCTGAGGGAATATAGTAAAAATGCATATGCACGTGCAATTTGCAC
GGCAGCATTTACCGATTGTGGACTGTATTGGCTAATGTGTTTCTGGTCTTTAGATGCAAACCATTAATAACAC
TATCTTATCTCATAGTTTTTTCAGGGGTGCTTCTTGATTAGTAGGGAATTTTGAACACCTCTTTAAATACAGCTA
GAAAATAAAACCAATTTGTAAAGCCACATTTGCATATGATGCCAGCCTCACGCATTTGTATATCTCCAGAAATTC
AGGTATGCCTCACCAATTTGCCCGTCTTTAATAAAATCTTGTTTAAATTTGCATCACGTGCGCTTCTCTATGTA
TGACGAAACAAGAAACAGAGATTTCCAATTGCTCTTTTGTCTTCAGACATTTAGTAATATAAAGTACCTATTTTT
ATGCTGAAATGTTTATACAGGTTTATTAATAGCAAGTGCAACTAAGTGGCGGCATGCCTTGCAACACATTTTGAT
ATATTAGCCATGCTTCCGGGTAAAGGCAAGCCCCAACTCCTTATCTTTTGAGTCTCTCTGGGATCAGTAAAAG
AAAAAAAAAATAATGTGCTTAAGAAGTGGGACTGTAAATATGTATATTTAACTTTGTATAGCCCATGTACCTACC
TTGTATAGAAAAATAATTTTAAAAATTTGAATGGAAGGGGTAAAGGAAGTCATGAAGTTTTTTTGCATTTTTAT
TTAAATGAAGGAATTCCAAATAACTCACCTACAGATTTTTTAGCACAAAAATAGCCATTGTAAAGTGTTAAATTT
ACGATAAGTATTCTATTGGGGAGGAAAGGTAACCTCTGATCTCAGTTACAGTTTTTTTTTCCTTTTTAAATTTCAAT
ATTTTGGGTTTTTGGTTTTTGCAGTCCTATTTATCTGCAGTCGTATTAAGTCCATTGCTAGAAATAGGTTACTAC
AAAAAGGTTATATTCTGAAAGAAAAATAACTGACATTATATATAACCAATTAATTTAAAGTATTGCCATTTAAA
TTACACACTGAGAGCATGTCCTATGCAGACATAGATTTTTCTGTTCAATTTATTTTTCTTCATTGCAGTGGATTGA
TTTGATAAATAGATGTGTTGAATTACTACATTTGCTGTACATATTATTTAATAAACTTTATTCAGAAATTGCGTGG
CAAAAAAAAAAAAAAAAAA

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FIGURE 1198

MSSECDGGSKAVMNGLAPGSNGQDKMDPTKICTGKGAVTLRASSSYRETPSSSPASPQETROHESKPGLEPEPS
SADEWRLSSSADANGNAQPSSLAAGYRSVHPNLP SDKSQDATSSSAAQPEVIVVPLYLVNTDRGQEGTARPPTP
LGPLGCVPTIPATASAA SPLTFPTLDDFIPPHLQRWPHHSQPARASGSFAPISQTPPSFSPPPFLVPPAPEDLRR
VSEPDLTGAVSSTDSSPLLNEVSSSLIGTDSQAFPSVSKPSSAYPSTTIVNPTIVLLQHNREQQKRLSSSLSDPVS
ERRVGEQDSAPTQEKPTSPGKAIEKRAKDDSR RVVKSTQDLSDVSMDEVGIPLRNTERSKDWYKTMFKQIHKLNR
DDSDLYSPRYSFSEDTKSPLSVPRSKSEMSYIDGKVVKRSATLPLPARSSSLKSSSERNDWEPPDKKVDTRKY
RAEPKSIYEQPGKSSVLTNEKMSSAISPTPEISSETPGYIYSSNFHAVKRES DGAPGDLTSLENERQIYKSVLE
GGDIPLQGLSGLKRPSSSASTKDSESPRHFIPADYLESTEEFIRRRHDDKEMRPARAKFDFKAQTLKELPLQKGD
IVYIYKQIDQNWYEGEHGGRVGFIPRTYIELLP AEAQPKKLT PVQVLEYGEAIAKFNFN GDTQVEMSF RKGER
ITLLRQVDENWYEGRIPGTSRQGIFPITYVDVIKRLVKNPVDYMDLPFSSSPSR SATAS PQPQAQQRRT PDR
SQTSQDLFSYQALYSYIPQNDDELELRDGDIVDMEKCD DGWFGT SRRTKQFGTFPGNYVKPLYL

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FIGURE 1199

GCACGAGGCAGGCCGAAGTCCGCAGCCCCGGCTCGGCGCCCGCTGCTTGACCTCCCGGATGGTGCTGACTGCTC
CCTAAGCGGCGGGCGGCGGCGAGTCGTGAGGACGCGCCGCGGAGGCTGTTTCGGGGTCGAGGCTTCCCGTCGCCGGC
ACTTCCTCTTGCGGCGCCCGTGC GCGGCCGCGCCGCGGAGCGGGATGAGCGGCCGCGGCTCCGGGAACGGCCGCG
CATCGGCGCCCCGGCTGCTTCTGCTCTTTCTGGTTCCGCTGCTGTGGGCCCGGCTGCGGTCCGGGCCGGCCAG
ATGAAGACCTTAGCCACCGGAACAAAGAACC GCGCGCCGCGCCAGCAGCTGCAGCCGCAGCCTGTGGCTGTGC
AGGGCCCCGAGCCGGCCCGGGTCGAGAAAATATTTACACCAGCAGCTCCAGTTCATACCAATAAAGAAGATCCTG
CTACCCAACTAATTTGGGATTATCCATGCATTGTGCTGCCATATCAGTTATTATTGTATCTGAATTGGGTG
ATAAGACATTTTTTATAGCAGCCATCATGGCAATGCGCTATAACCGCCTGACCGTGCTGGCTGGTGCAATGCTTG
CCTTGGGACTAATGACATGCTTGTGTCAGTTTGTGGCTATGCCACCACAGTCATCCCAGGGTCTATACATACT
ATGTTTCAACTGTATTATTTGCCATTTTGGCATTAGAATGCTTCGGGAAGGCTTAAAGATGAGCCCTGATGAGG
GTCAAGAGGAAGTGAAGAAGTTCAAGCTGAATTAAAGAAGAAAGATGAAGAATTTCAACGAACCAAACCTTTTAA
ATGGACCGGGAGATGTTGAAACGGGTACAAGCATAACAGTACCTCAGAAAAAGTGGTTGCATTTTATTTACCCA
TTTTTGTTCAGCTCTTACATTAACATTCTTAGCAGAATGGGGTGATCGCTCTCAACTAACTACAATTGTATTGG
CAGCTAGAGAGGACCCCTATGGTGTAGCCGTGGGTGGAAGTGTGGGGCACTGCCTGTGCACGGGATTGGCAGTAA
TTGGAGGAAGAATGATAGCACAGAAAATCTCTGTGCAAGTGTGACAATCATAGGAGGCATCGTTTTTTTGGCGT
TTGCATTTTCTGCACTATTTATAAGCCCTGATTCTGGTTTTTAAACGCTGTTTGTTCATCTATATTTAGTTTAAAA
TAGGTAGTATTATCTTCTGTACATAGTGACATTACAATAAAAGTATGGGAAAAATACTGTATTTTGTAGGC
ACTGGATTTTGTGAGTTTGACCCCTTATTATGTCTGGAGGATATAATCATTGGATTCCCTATCTTGTGCCAAGGGA
GTTTTTAAAAGGAAACCCCTGACTTTTTTAAGTGTGGGGGTTTTTCTTCTCTTCCCAACCTTAATTATGGTTTAA
ATGGTCCTCATTTTTCTTTTGGTGCAGAACCGTTGTGTCAGTGGGGTCTACCATGCAATTTTCTTTCAGCACTGAC
CCCTTTTTAAGGAATACAAATTTCTCCTTCATCACTTAGGTGTTTTAAGATGTTTACCTTAAAGTTTTCTTGGG
GAAAGAATGAATTAATTTCTATTTCTTAAACATTTCCCTGAGCCAGTAAACAGTAGTTTAAATCATTGGTCTTTT
CAAACTAGGTGTTTAAAAAAGAGACATATATGATATTGCTGTTATATCAATAACATGGCACAACAAGAACTGT
CTGCCAGGTCAATCTTCTCTTTTTTTTTTAATTGGGTAGGACACCCCATATAAAAACCATCCATATTTGGCCAT
GTGGGATTACCCAAATAAAAGAGGAATCCATGGATGGATTGAGAATTTTTTTAAATTTAATAAACCAACCAACCC
TTGGTTCCCATATTTAATTAAAGGAGGGTTGCCAGT

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FIGURE 1200

MSGRGSGNGRASAPRLLLLFLVPLLWAPAAVRAGPDEDLSHRNKEPPAPAQQLQPQPVAVQGPEPARVEKIFTPA
APVHTNKEDPATQTNLGFIAHFVAAISVIVSELGDKTFFIAAIMAMRYNRLTVLAGAMLALGLMTCLSVLFGYA
TTVIPRVYTTYVSTVLFAIFGIRMLREGLKMSPDGEQEELEEVQAEKKKDEEFQRTKLLNGPGDVETGTSITVP
QKKWLHFISPIFVQALTLTFLAEWGDRSQLTTIVLAAREDPYGAVGGTVGHCLCTGLAVIGGRMIAQKISVRTV
TIIGGIVFLAFAFSALFISPD SGF

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FIGURE 1201

GGGCTGACTGGAGGCTGGCGGACAGGCGACAGACCTGCGGCAGGACCAGAGGAGCGAGACGAGCAAGAACCACAC
CCAGCAGCAATGTCAGCGGAAGTGGAACCTCAGAGGGGGTAGACGAGTCAGAAAAAAGAAGCTCTGGGGCCCTA
GAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCGG
GCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAGCTGGCCACCACG
GCACTTTACTTTCACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCTTTGCCCTTTG
TACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTTTGGTGAAAACCTGGGAG
GAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGCGGATCCACTACATAGGGCAGAACGAGCCGGAG
CTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCTCGGGGGGCCAGGTGCTGAAGAAGGTGGCCCG
CGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTACCTGTTTGAGAATGTGGACAATGCCCAGCAG
TTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGAACATGAAGACCAAAGAGAGGATCGTGGAGGAG
GCCAACAAGGCTTTTGAGTATAACATGCAGATATTCAATGAAGTGGACCAGGCCGGCTCCACACTGGCCAGAGAG
ACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACATGCGTAAATGCCCTTTCTACGCTGCTGAACAA
GACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAGCTATGGCTGTGCTGAGGAAGCCCAGCCTCCAG
TTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGGCCTGGTACTACATGTGAAGCACCCATCATGCC
ACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTTCTCCAGCCCTGACTAAACTACCACCTCAGGTG
ACTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAAGAGATGCTAGAGCCTCGTCTGACAGCATCCTC
TCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCCCTGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCC
CCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCCCTAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTAC
ATGGGTGACTATCTCCCTGTTGGAGGTGAGTGGCCTGTAAGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCT
GCTGTACAACCTTCTGGGCCTCTCTTGGACCTGGGAGTGAGGGTGGGTGTGGGTGGAAGCCTCAGAGGCCTTGGG
AGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTGGGTGCGGTTTGTCTAGCCCCAGCTTATCTCCTCCTCCG
CCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTTGCAAGCTAAAAAAAAAAAAAAAAA

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FIGURE 1202

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHFAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFRTAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

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FIGURE 1203

GGCGAAGGAGATCAGCAGGACGCTGCGCACAAACATGGGCAACCACCTGCCGCTCCTGCCTGCAGAGAGTGAGGAA
GAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAACCAAACATCATAAATTTTGACACCAGT
CTGCCGACATCACATACATACCTAGGTGCTGATATGGAAGAATTTTCATGGCAGGACTTTGCACGATGACGACAGC
TGTCAGGTGATTCCAGTTCTTCCACAAGTGATGATGATCCTGATTCGCCGACAGACATTACCTCTTCAGCTTTTT
CACCTCAAGAAGTCAGTATGGTGCGGAATTTAATTCAGAAAGATAGAACCTTTGCTGTTCTTGCATACAGCAAT
GTACAGGAAAGGGAAGCACAGTTTGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGAAT
GAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATC
CAGCAAGCTAAAGTGCAAATTCCTCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTC
AATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTTTCATATAAATGGTGGCAGAAATAC
CAGAAGAGAAAGTTTCATTGTGCAAATCTAATTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACC
TTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCTTCAAATCCA
ATAGATTTTTCTTACAGAGTAGCTGCTTGTCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTAAATTTGGC
AGTGCTATCCAGCGACTTCGCTGTGAATTAGACATTATGAATAAATGTACTTCCCTTTGCTGTAAACAATGTCAA
GAAACAGAAATAACAACCAAAAATGAAATATTCAGTTTATCCTTATGTGGGCCGATGGAGCTTATGTGAATCCTC
ATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGCAACTTGAATCTGATAGGCCGGCCTTCTACAGAAC
ACAGCTGGTTTTCTGGGTATGCCTGGACTGTTGCCAGTGTAAGATCTGTGCAAGCCCATATTGGATGGGAAGTT
TACGGCCACCAAAAAGACATGTCACCTCAAAAATTTGGGGCTTAACGCGATCTGCTCTGTTGCCACGATCCC
AGACACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGCTTGTAACAGATGTGATAGAGATAAAGTTATC
TAACAAATTGGTTATATTCTAAGATCTGCTTTGGAAATTATTGCCTCTGATACATACCTAAGTAAACATAACATT
AATACCTAAGTAAACATAACATTACTTGGAGGGTTGCAGTTTCTAAGTGAACTGTGATTTGAACTTTTAAGTAT
ACTTTAGGAAACAAGCATGAACGGCAGTCTAGAATACCAGAAACATCTACTTGGGTAGCTTGGTGCCATTATCCT
GTGGAATCTGATATGTCTGGTAGCATGTCATTGATGGGACATGAAGACATCTTTGGAAATGATGAGATTATTTCC
TGTGTTAAAAAAAAAAAAA

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FIGURE 1204

MGNHLPLLPAESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDDSCQVIPVLPQVM
MILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFAVLAYSINVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGRQ
RFKVLELRTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLT
SWPRWLYSLYDAETLMDRIKKQLREW DENLKDDSLPSNPIDFSYRVAACLPIDDLRIQLLKIGSAIQRLRCELD
IMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMELM

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FIGURE 1205

GCAGAGGTGCGGCCGGGGAGGCGCGGGAGGCTGGAGCTGGAGGCGCGGCCGGGTGAGCTGAGAACC**ATGTGTG**
CTCAGTATTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTTCGAGATTCTATCCACCTCACACCAG
TGCTAACAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTTCTTCAAATGTGAACTCTTCCAGAAAAACAG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTCAGAAGCTTGGTTCCTGATGCTTTAGAAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCCTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAAGCTTGAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTTGGTGG
ATGCACTGGTGCTACCTGTAGGTGGAGGGAATGCTTGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTTCAAAGTGTTCCTC
CAGAAGTAAAGAACATTTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTT**TAA**TTTACAGAAAAGGAAATGGTGGGAATTCAGTGTCT
TTTAGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTCATTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAACAACTTTTATACTTAACTGAGACATTTTGTCAA
GGCTAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAATAAACTTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCGGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTTCAGCCAGGGTACTGGTTCCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAAGACTCGTTTATACAGGTTTCATCAGTACTGTGTCTTGAGATTTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAACAGTCCGGTCAAATTAAGAGTAGAAAATTTTAAAGCAATGA
CTTCCAACCCAACAGTCATTTAGCAACACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTTCCTTGATATGTCTCTCCGGCCCCACTTCGTTCTCAGTTCCACTGGTTTAAACCACAGCACATCCTCTTA
GAATCAAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCCAACCTTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTTCATACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACCTCTCTTGATGACCATTCTGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCCCTAAAGGACAAAAGCAAAGAAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTTCATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAAGCCACACTTAACCTTGTCAATAGGTTCTTGAAAACCTGTACTTCAAGAGAAATGATG
TATAACAAAACCATACATTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTTGAGGAC
TGGCTATACACTGTTTCACGTAAAAGTTGGAGTTTTTCATTGTTCTATTAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTTGGCTCCCAATTTAAATAAACAAGAGAAAACGGTGTTCAT
CT

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FIGURE 1206

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEP SDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTTIALEVLNQVPLVDALVVPVGGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVAAVLSQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1207

CCCCGCGTCATACGGTTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTGCGAAGACTCAACGAAAGACTCCAACCGTTATTTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTIGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTCACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGGCCCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAAATTCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCATTACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAGACTCTGCTCCCCCGTCTCTGTGGCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATTAGTATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCCCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTGCTTTGCTGAAAACATATGGTTAACCTTATATAGGTGTGGGAAATTTTTGT
CACTGCATAATATTACAAATATTTTGGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGTAACTGGGTTGTTTTTGTATGGAGAAAAACCTTATTTCTTTTGTAAAGACT
GGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAATAACGCTCTTAAATTATTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAACTAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1208

MAHYNFKKITVVP
SAKDFIDLTLSKTQ
RKTPTVIHKHYQI
HRIRHFYMRKVKF
TQQNYHDRLSQIL
TDFPKLDDI
HPFYADLMNILYD
KDHVKLALGQINI
AKNLVDNVAKDYV
RLMKYGDSLVRCK
QLKRAALGRMCTV
IKRQKQSLEY
LEQVRQHLSRLPT
IDPNTRITLLLCG
YPNVGKSSFINKV
TRADVDPYAFITK
SLFVGHMDYKYL
RWQVVDTPGI
LDHPLEDRNTIEM
QAITALAHLRAAV
LYVMDLSEQCGH
GLREQLELFQNIR
PLFINKPLIVVAN
KCDVKRIAELS
EDDQKIFTDLQSE
GFPVIETSTLTEE
GVKVKTEACDRLL
AHRVETKMKGKVN
EVLNRLHLAIPTR
RDDKERPP
FIPEGVVARRRME
TEESRKKRERDLE
LEMGGDYILDQKY
WDLNMLSEKHDKI
PEIWEGHNIADYI
DPAIMKKL
EELEKEEELRTAA
GEYDSVSESEDEE
MLEIRQLAKQIRE
KKLKILESKEKNT
QGPRMPRTAKKV
QRTVLEKEMR
SLGVDMDDKDDA
HYAVQARRSRSI
TRKRKREDSAPP
SSVARSGSCSRTP
RDVSGLRDVKMV
KKAKTMKNAQKK
MN
RLGKKGEADRHV
FDMKPKHLLSGK
RKAGKKDRR

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FIGURE 1209

CGAGCACTAAGTCTCTGAGTTCCGCGAGCGCAGCACCGGAAGCGGCCGAGCGCGCTCAGCCCGGCGACCCCTGCG
GGCTCCAGACCCCTGCGCCGCTGCGCCCCGGGTTTCGCCGCAACCAAGACCCAGCGAGTGCAGCGGCGGCCGCTG
AGGAGGTTTCGAAAACATGGCCAAAAAGAAATGCCGAGAAGGAAGTACAGATAGGAATTGGGATCAAGAAGATGAA
GCTGAAGAGGTGGGAACATTCTCCATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAGCAAAGCGC
AGAAATGTTGGATTTGAATCTGACACTGGAGGAGCCTTTAAAGGTTTTAAAGGTTTGGTGGTACCTTCTGGAGGA
GGACGCTTTTCTGGATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTCGAATGGAAACAACATAACC
AGTGCCCCCTCCCTTCGCCAGTGCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTCTTGCTGCAAATGGC
CCTACCACCTTGGTTGATAAAGTTTCAAATCCCAAACTAATGGGGACAGTCAGCAGCCCTCTCCTCTGGCCTT
GCTTCCAGTAAAGCTTGTGTCGGAAATGCCTATCACAAGCAGTTGGCCGCTTGAAGTGCCTCCGTGCGGGATTGG
ATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCTATCTTTAAAGACTATGAGAAATATTTAGCA
AACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGTGAATCTAACAAAGTGGCAGCTGAAACACAG
TCTCCTTCCCTTTTTGGCTCAACAAAATTACAGCAAGAGTCAAGCTTTTTGTTTCATGGCAACAAAAGTGAAGAT
ACACCTGACAAGAAGATGGAGGTGGCATCTGAAAAGAAAACGGACCCATCATCACTAGGAGCGACAAGTGCCTCA
TTTAATTTTCGGCAAGAAAGTTGATAGCTCTGTTTTGGGCTCATTAAAGCTCTGTCCCCCTGACTGGATTTTCTTTC
TCCCCTGGAACTCCAGTTTATTTGGCAAAGATACTACCCAGAGTAAACCAGTCTCTTCACCATTTCCTCACTAAA
CCATTGGAGGGCCAAGCAGAAGGTGACAGTGGTGAATGCAAAGGTGGAGATGAAGAAGAGAATGATGAGCCACCC
AAAGTAGTAGTTACCGAAGTAAAAGAAGAAGATGCTTTTTACTCCAAAAGTGTAAGTGTGTTTACAAGAAGGAC
AATGAGTTTAAAGAGAAAGGCATAGGTACTCTGCATTTAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTG
CGGGCAGACACCAATTTAGGCAACATATTGCTGAACGTTCTGATTCCACCCAATATGCCATGTACGCGAACAGGG
AAGAATAACGTTCTTATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGTATGCCACCATGCCAGTCACCATG
TTGATTTCGGGTAAAAACCAGCGAGGATGCAGACGAGTTGCACAAAATTTTACTGGAGAAAAAGGATGCCTGAACA
CGCAAAGTCGGCTGCAGAATTATTGCCAAGTTGCTGCTGCTTCCACCGCCCCCTTAAAGTTAGTCAGTTTTTCTTC
TCTTCTTTGACATTCTAAGAACTTATAGATAACTTAAACCTTTTGTGAGGAAGATTAATGTGGCCAATAAACCT
TTAAATGTTAAGTGTCAAAAAAAAAAAAAAAAA

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FIGURE 1210

MAKRNAEKELTDRNWDQEDEAEVGTFSMASEEVLKNRAIKKAKRRNVGFESDTGGAFKGFKGLVVPSSGGGRFSG
FGSGAGGKPLEGLSNGNNITSAPPFASAKAAADPKVAFGSLAANGPTTLVDKVSNPKTNGDSQQPSSSSGLASSKA
CVGNAYHKQLAALNCSVRDWIVKHVNTNPLCDLTPIFKDYEKYLANIEQQHGNSSGRNSESESNKVAAETQSPSLF
GSTKLQQESSFLFHGNKTEDTPDKKMEVASEKKTDPSSLGATSASFNFSGKKVDSSVLGSLSSVPLTGFSFSPGNS
SLFGKDTTQSKPVSSPFPTKPLEGQAEGDSGECKGGDEEENDEPPKVVVTEVKEEDAFYSKKCKLFYKKDNEFKE
KGIGTLHLKPTANQKTQLLVRADTNLGNILLNVLIIPPNMPCRTTGKNNVLIVCVPNPPIDEKNATMPVTMLIRVK
TSEDADELHKILLEKKDA

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FIGURE 1211

GTGTGCTGGTTCAAGGTGCAACATACAGAATATTGAATTAAGAAAAGAGGGAACGGGGAAGGGAAGGGAAACCTC
TTGAGGTCCAAAGTTGCAAACAAAAATGGTAAAAGATTTCTCAGCAAGAGGCATTTTGCAAATACCATGCA
AAACAGGCAGCTGGTGTGCCTTAAGAGAATCCCTATAAATAACAGAAAAGACACTCCAAGCATTCTGTACGTGG
ACTCAGAGCACAGAGAAAAGAACTAAAATGCCTTTTGGCATTTCAGATATTTGGCACTCTTGTGATTACATTT
TTTTACAGTCCATTAAAGAGAATAAACTGACATAATATTAGAGAAAATAAACAGGCTGCTCACACAACAGACTGCA
AGGGGAAGTTAGAAAAAGCTCAAGCATTTTTTTCTTTGTTTTTCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTTTCTGACATAAAAAATGTGTCCATTTGCATTAACTTGGGCAGATAGCTTGCAGCAACAAAGA
AACACACGCTTTACAACATTTTTAAAATAAAATCTTTTCTATGTATCATTCCTTAGAAAAAGTTCTCTTCTTGT
TTAAACACATTCTTGATAACTTCTAAAGATGACCAAAATAAAACAGAATATCTACAGAGATCATTTTTCTGAATTT
TTTGTACATCCAAGGATAACAACATAAAAAAAATAAACTGGACAGCATTTTACATCCAAGTGCACAGAACCATT
TTTGCAAGATTAAATAATGTAAACATTGGGAACAGCCAAATCAGCGAAGAATGCCAACACCTCAAAACACCTGGT
GTTGCCGCTTCATTAAGTGGTTCAAAATCCAGATCTATAATTGCGCAATATTCACCGTATATAAAAAGAAATGGA
TATTAATTTTGACAAATAGCTGCAACTGAGACTTCTTTTTATTTCTTTATATGTGTATATAGTGAATTTTTATTA
TTTTTAAATTTTTATTTATTTTTTTATTTTTATTTTTGAGAGGAGCCCAGAGCCTTCTCCTCCTCCTCCTCCTC
CTCTCGCCTCATCTGTCTCCCGGCTGATACCAGATACAGGTTGTTGATTTCATCGTGGGTAGCAAGCTAGTAAT
AAATTTCAAAGTGCTTTCTCTTTTCATGCTTTTTGCCAATAACTGTTACCGCGTTCTTATTCTCTCCCTTAAC
CATGTCTTTGGGGAGTTAGACACCAGGAGGTGCCTTGTGCGTCATATTTTCAGCACGTCATCAATCCTATCA
CTTCAATAACAACCCGCTTGCTCCGGCCGATCTGGCCCAGCTTGG

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FIGURE 1212

MKRESLKFKITSLLPMTKSTTCIWYQAGRQMRREEEEEEEKALGSSAKIKIKK

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FIGURE 1213

GGCACGAGGGGGCGGCTGGGACCGGCTGGGGTAGCTGCGCAGCAGGTGGGTTCGGTCCCGGGGATGCAGCGCGGG
GGTCAGAGAGCGACCCCAACAGGGTAGACGGTGAGGACGCCTCAGTGGGCAGCGTTAGGGAAAGGGGCCAGGGTG
TTCCCGGGGTGGGGTTCGAGCCCCGCTGTGCGTCCAGGAGGCCGAGGGTCTGGCATCCCTTCGCGTGGAGTGC
GGGGCAGGGGGCCGGGTCCCCCGGAGGTGGCTGAGATCCAGATCGGTGAGGGGCCCTGCAGGCAGGTCTGTGGGT
TCTGGCACCACCTGAGCCCACTGGGCATCTGGTCATCCCTGGCACCTCTCCTTTGGAGCCACCTTGTCCCTGGCT
AGACAGTCACATTTTCCAGTGCCGTTTTGGAAAGATGTTGCCTTTGGAGAAGGCGTTTGCCTCCCCCAGGAGCTC
CCCAGCCCCGCCGATCTGCCACGCCGGGTGTCAGCAGCCGGAGTCCAGCAGGAAGAACCCGAGACCATCCCTGA
GAGGACCCCTGCTGACCTGGAGTTCTCCCGCTGCGTTTTCCGGGAATTTGTCTACCAGGAGGCTGCCGGGCCCCA
CCAGACCCCTGGCCCGGCTGCATGAGCTGTGCCGCCAGTGGCTGATGCCTGAGGCGCGCTCCAAGGAGCAGATGCT
GGAGCTGCTGGTGCTGGAGCAGTTCTTGGGCATCCTGCCTGATAAGGTCCGGCCCTGGGTGGTGGCACAGTACCC
TGAGAGCTGCAAGAAGGCAGCCTCCCTGGTGGAGGGCCTCGCTGATGTCTGGAAGAGCCAGGGATGCTGCTGGG
CTCCCTGCGGGCTCATCCTCAATTCTTAGCGATGGAGTGTACGAGAGGCACATGGACCCCTGCTGCTACCAGG
CGAGCTCGCGAGCCCCAGCCAGGCCCTTGGAGCTGGGGAGATCCCGGCACCTTCTGAGACACCCCTGGCTTTCTCC
GGACCCCTGTTTTCTGGAACAGAGGAGGGTTCAGAGAAGCAAAGACCGAAGAGGACGGCCCTGCCAACACCGAGCA
GAAGCTGAAGTCCTTTCCAGAGGACCCCTCAGCACCTGGGGGAGTGGGGCCACCTGGACCCCTGCCGAGGAGAACCT
GAAGAGCTACCGGAAGCTGCTCCTGTGGGGGTATCAGCTTTCCAGCCTGACGCTGCCTCCAGGCTGGACACTGA
GGAATCCGGTTGGTGGAAGAGATCCACAAGGAAGCAGCCTCCCAAGAGCGGGAGGCGGCAGGAGAGCGCTGG
GTGCGCTGCGAGGAGGCCGCCCGCGGGGGTGTGCTGCTGAGCTGCCTACGGAGGCGCCCCCTGGGGACGCCCT
TGCCGATCCCCCGTTCGGGCACCACTGAGGAGGAGGAAGAGCAGCCTGGGAAGGCCCGGACCCGAGGACCCCCA
GGACGCGGAGTCCGACTCTGCCACCGGATCGCAGAGGCAGTCCGTCATCCAGCAGCCTGCCCGGACAGGGGCAC
GGCGAAACTGGGAACCAAGAGGCCGACCCCCAGGATGGGGACGAGCAGAGCCTCGAGGGCGTCTCTAGCTCCGG
CGACAGCGCAGGGCTGGAGGCCGGGCAGGGCCCTGGGGCTGACGAGCCGGGCTTGTCCCGCGGAAGCCCTATGC
CTGCGGCGAGTGCGGGGAGGCCCTTCGCGTGGCTCTCGCACCTGATGGAGCACCACAGCAGCCATGGCGGCCGGA
GCGCTACGCTGTGAGGGCTGCTGGAAGACCTTCCACTTCAGCCTGGCCCTAGCCGAGCACCAGAAGACCCACGA
GAAGGAGAAAAGCTACGCGCTGGGGGGCGCCGGGGCCCCCAACCGTCCACCCGCGAAGCCCAGGCGGGGGCTAG
GGCGGGCGGTCCCCCAGAGAGCGTGGAGGGCGAGGCTCCCCCGCACCCCCAGAGGCGCAGAGGTGAGCCGCTGT
GCTGTCCCGTTCCGGAGGGGCCGCTTTGCCGGCCGTGAATCCCAGACGAGGCATTGGGCCTTTCCACGCCCCTGG
GTGGCGGCTTCTGTGGTGTGTTGTGGACGTCTCTGCCTGTGCCCTGAATCCGCTCCTGAGGCTAAGCGCTCCCA
ACGAGAAGGGTCCACGGGAAGCCCTCACCTCTGTAAACACACCCCTGGGCCAGCGCTCGCATCCGAGGGGAGCCGC
CGGATGTGGAAGAAGACTCGGCTTTCTGTCAGCCATTTAGTGCCGCCCATGCTAGGTTATTTGACATTGTGCAG
TGTAAGATTGCCTTAAAGTGCGTGATCTGCCAGTGCTTTCTTCAAGTCACCCCTGCCCGATTCTCTGTTTGC
GCTCCCAGGGTTGCTCAAGTGGAATTTTGTGAGCTGTTTAGCCTTTTCGTACTTGGCGTGATGTCAACTTCAC
TTCTAATCTGCAAAAGCAGAAGCTGTTTCTAGTTTACCTCGCGTGTGTTTACCTATATGGAGTAGCTCGCAGAG
ATCACAGAAATGCTTGCAGCCTAAGGCAGGGTTTTTCAGACCGTGGGTCCCGACCCATTTAGTAAATGGGAAATC
AATTAGCAAGTGGTCACCAGCATTACACAGCAATGAAGCAGAATAAAGTAGGCCAGAATGCATCATGTAGTAAAG
GCAAATACTGTTTTGTGAACTTTTACCCATACATCTAAATGTGAGAACTGGTTGCAATGTAAGACATTTCTTG
CTGGGAAGTTGTGAGCAAAATAAGTTGAAAACACTAATAAAGATCTGTCTGTCTGAGCAAAGGAGACTAAACTCC
TTGGGCTACATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1214

MLPLEKAFASPRSSPAPDLP TPGSAAGVQQEETIPERTPADLEFSRLRFREFVYQEAAGPHQTLARLHELCR
QWLMPEARSKEQMLELLVLEQFLGILPDKVRPWVVAQYPESCKKAASLVEGLADVLEEPGMLLGSPAGSSSILSD
GVYERHMDP LLLPGELASP SQALGAGEIPAPSETPWLS PDPLFLEQRRVREAKTEEDGPANTEQKLKSFEDPQH
LGEWGHLDPAEENLKS YRKLLLWGYQLSQPDAA SRLDTEELRLVERDPQGSSLP EGGRRQESAGCACEEAPAGV
LPELPTEAPPGDALADPPSGTTEEEEEEQPGKAPDPQDPQDAESDSATGSQRQSVIQQPAPDRGTAKLGTKRPHPE
DGDEQSLEGVSSSGDSAGLEAGQGPGADEPGLSRGKPYACGECGEAFWL SHLMEHHSSHGGRKRYACQGCWKTF
HFSLALAEHQKTHEKEKSYALGGARGPQPSTREAQAGARAGGPPE SVEGEAPPAPPEAQR

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FIGURE 1215

AAAACCTCTTCTCAGACCCGGGAGCGTCCGGGACGCGGAGCCCGGAGCTGGGGCGACGAGGCGATTGCGGGGGCCCT
GGGCTAGCTGCTGGCTACCAATATTCTACTTTCTGTCTCTATGTATGTGACTACCCTGGTTACCTCATATAATCT
CCCTGGAAAAGGAGACATGAATGTCTGCAATGATACTTCCTGACAAGAAGTTGATACAAGAAAAGGAAAGGAGAT
TAACAGCTAGTGAGCAGAATTTGGAACAGCAGGATTTCTGATTTTTTGTCTTCCAAGTGCACACTTCCGTTTCCCA
CTTTTAAATCAGAGATACCTACACTCAAACCCAGACAAGGCAAAGGATACCTTTCTTGTATATTTTTGAGAT
CGAAGAAACGACAATGTCAGGAAACAGAACCAGAAGGATTCATCAGGATTCATTTTTGATTGTCAGTCCAATAC
CGTACTGGCCAGGGAGGAGCTTTTGAGAACATGAAAGAGAAGATAAATGCGGTACGTGCAATAGTTCCTAATAA
GAGCAACAATGAAATTATCCTGGTTTTGTCAGCACTTTGATACTGTGTGGACAAAACAGTACAAGCATTTCATGGA
AGGTAGTGCCAGTGAAGTACTCAAAGAATGGACAGTAACAGGCAAGAAAAAGAACAAAAAGAAGAAAAACAAACC
GAAACCTGCCGAGAACCAAGTAACGGCATCCCAGATTCCAGTAAATCAGTTTCCATTCAAGAGGAACAGTCTGC
GCCTTCCTCAGAGAAAGGTGGTATGAATGGCTACCATGTCAATGGTGCCATCAATGACACTGAGTCTGTGGACTC
ACTCAGTGAAGGTTTGAGACACTTTCAATAGATGCCAGAGAATTGGAGGATCCCGAGTCTGCCATGCTAGATAC
GCTGGACAGAACAGGATCCATGCTGCAGAAATGGTGTCTCTGATTTTTGAGACCAAGTCTTTGACTATGCACTCTAT
TCACAATTCTCAACAACCCAGGAATGCTGCCAAATCTCTCTCAAGACCTACCACAGAAACTCAGTTTTCAAATAT
GGGGATGGAAGATGTTCCCTCGCCACCAGTAAAAAGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCA
GCGCTGCACAGTGTCTCTTGACAGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCATTAAAGAAAATGAA
ACAAGCCTTTTGCTGAATTGGAGAGCTGTTTAAATGGATCGAGAAGTGGCGTTGCTTGCTGAAATGGACAAAGTGAA
AGCTGAAGCAATGGAATTTTGCTCAGCCGACAAAAGAAGGCTGAACCTTCTAAAGAAGATGACTCATGTGGCTGT
TCAAATGTCAGAGCAGCAATTGGTTGAGCTCAGAGCTGATATCAAGCACTTTGTTAGTGAACGTAAATATGATGA
GGATCTGGGACGAGTAGCCCGGTTACCTGTGATGTAGAGACCCTAAAGAACAGCATTGATTTCATTTGGACAAGT
GTCTCATCCAAAGAACAGCTATTTCGACCAGATCCCGATGTAGCTCAGTTACATCTGTGTCTTGGAGTAGCCCAAG
TGATGCCTCTGCTGCTTCTCTTCCACCTGTGCCTCTCCTCCCAGCCTTACAAGTGCTAACAAGAAAAACTTTGC
ACCGGGAGAGACTCCTGCAGCCATAGCAAACCTCCAGTGGCCAGCCCTACCAGCCACTTCGGGAGGTATTGCCAGG
GAACAGACGAGGAGGACAGGGCTATAGGCCACAAGGCCAAAAGTCCAATGACCCCATGAACCAAGGGCGGCATGA
CAGTATGGGTCGTTACAGAAACAGCTCGTGGTATTCTCTGTTCCAGGTATCAGAGTGCTCCATCTCAGGCACC
AGGAAACACCATTGAAAGAGGCCAGACTCACTCTGCAGGGACCAATGGAAGTACAGTCAAGTCAAGGAGGAGGAGG
TCCCACGCCTTCATTCAAAAAGGGGCTCCCCAGCGCAAACCCAGGACCTCTCAGACTGAAGCCGTGAACCTCTTG
AGAGAAAATCCAGTTGGCCTCTCTCCTCTATCCACACAATTCAACTTGATAACTGGACTTTAGGAACTTACAGT
TAGATGTAATAACAAAAAGAAGTTTATGCGTATCACTTTTTGTGCCATTCTAAGTATTTTTGGTTCTTGTCTCCT
TATTTCTCTTTACCATTTTTGGAGGGGAAGCTATTTTTTTTCTTGTATCTTTCCAGTGATATGGATTGAATCT
GGTTGGTCATTTCCACCAGGAATCAGAGGCAGCTGTTACCAGGTTTCGGCCTTCCAGTTGATCCCTCCACTGTCC
AGGCTGTCTCAGGAGGAGGTGAATCAGAGCTAGTCTGTACCTTTCCAATCTAAGCCGAAGCCACAGGTGCCTGA
CAGGTTCCCTTCTAACAACATTTGACCAAGAGAGGCAATCAGGGGGTGTATACTGCACTGGATTGCGCCAGAGA
AGGGAAAATTTAATTAGTGAAGAGGAAAGAACACTAGGAAACATTTGAGAACCTGCCTCTATCCCAGAACGTGCT
GGAGATTTGACACTCAAATCAGTGTTTAGTCTTCTGCTTGGCACCATAGCTTAACCTGCAGTTTCTTCAAATGC
CCAATGCCTTGTTCCTATTACCTTAGATTGCAAACAGTCTAGGGAAAGTCTATGAGAAAGTAGCATTTAATTAA
AGTTTAAAAAAGGTTGGGCGTTGTGGCTCATGCCTGTAAATCCAGCACTTTGGGAGGCTGAGGCGGGTGG
ATCACTAGGTCAGGAGTTCAAGACCAGCTGGCCAACATGGTGAAACCTGTCTGTACTAAAAATACAAAAGTTA
GCTGAGCATGGTGGCGTGTGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAAATCGCTTGAACCCAGGA
GGCGGAGGCTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCAGTCTC

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FIGURE 1216

MSRKQNQKDSSGFIFDLQSNVLAQGGAFENMKEKINAVRAIVPNKSNNEIILVLQHFDNCVDKTVQAFMEGSAS
EVLKEWTVTGKKKNKKKKKNPKPAAEPSNGIPDSSKSVSIQEEQSAPSSEKGGMNGYHVNGAINDTESVDSLSEG
LETLSIDARELEDPEAMLDLDRGTGSMQLQNGVSDFETKSLTMHSIHNSQQPRNAAKSLSRPTTETQFSNMGMED
VPLATSKKLSSNIEKSVKDLQRCTVSLARYRVVVKEEMDASIKKMKQAFAELESCLMDREVALLAEMDKVKAEM
EILLSRQKKAELLKKMTHVAVQMSEQQVELRADIKHFVSEKRYDEDLGRVARFTCDVETLKKSIDSFGQVSHPK
NSYSTRSRCSSVTSVSLSSPSDASAASSSTCASPPSLTSANKKNFAPGETPAAIANSSGQPYQPLREVLPGNRRG
GQGYRPQGQKSNDPMNQGRHDSMGRYRNSSWYSSGSRYQSAPSQAPGNTIERGQTHSAGTNGTRVSMESPPTPS
FKKGLPQRKPRTSQTEAVNS

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FIGURE 1217

GGGCAAACCCCTTTGAAAAATATTCTAAATGAAAATGACATAGTATTTCATAGTGGAAGGAGTGCCTTTAGAAAAGG
AAGAAACAAGTCATATTGAAGAACTTCAATCTGAAGAACTGCCATATCTGATTTCTCTACTGGCGAAAATGTTG
GACCACTTGCTTTACCAGTTGGGAAGGCAAGGCAGTTAATTGGACTTTACACCAATGGCTCACAATCCTAATATGA
CCCATTTGAAGATTAACTGCTGTTACTGCCCTTCCCCCCTTTGGGTAAGATGTGACAGTTCAGATCCTGAAG
GTACTTGTTGGCTAGGAGCTGAGCTTATCACAACAAACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTT
GTAAAGCTGATAAAAAATTATTCTGTAAATCTTGAAAACCTAAAAAATTTACACAAGAAAAGACATCACTTGTCTA
CTGTAACATCCAAAGGCTTTGCCCAGTATGAGCTCTTTAAGTCCTCTGCCTTGGATGATACAATCAGCATCAC
AAACTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTCAAATCCCTCCACTCTCTTCAACTG
CAATCTGAATATTAAAGTGGAAATCAGGAGAGCCAGAGGTCCTTTGAATCATCTCTACAGAGAAGTGAATTTCT
TCTTGTTTTGGCTGATGGTTTGAGGACTGGTGTCACTGAATGGCTCGAGCCCCGGAAGCAAAATCTGCTGTTGA
ACTTGTTTCAAGGAATTTCTGAATGACTTAAATAAGCTGGATGGATTGGTGATTCTACAAAAAAGACACTGAGGT
TGAGACCTTGAAGCATGACACTGCTGCAGTCGATCGTTCCGTCAAGCGTCTTTTCAAAGTTTCGGAGTGATCTTGA
TTTTGCTGAGCAACTGTGGTGCAAAATGAGCAGTAGTGTGATTTTCATACCAAGACTAGGTGAAGTGTTTCACATT
GATCATCCAGAGTCTACAACGTGGTGATATACAGCCATGGCTCCATAGTGGAAAGTAACAGTTTACTAAGTAAGCT
CATTTCATCAGTCTTATCATGGAACCATGGACACAGTTTCTCTCAGTGGGACTATTCCAGTTCAAATGCTTTTGA
AATTGGTTTGGACAACTAAAGAAAGATTATATCAGTTTTTTTCATAGGTCAGGAAGTTCATCTTTGAATCATT
GGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAGGTTTATCGTGTCCAAAACTCCACCATATTCTAGA
AATATTAGTCAGTTGCATGCCTTTTATTAAATCTCAACATGAACTCCTCTTTTCTTTAACACAGATCTGCATAAA
GTATTACAAACAAAATCCTCTTGATGAGCAACACATTTTTTCAGCTGCCAGTCAGACCAACTGCTGTAAAGAACTT
ATATCAAAGTGAGAAGCCACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAGAAGATTAAAGACAGTTTGGCA
ACTGAGTGACAGCTCACCCATAGGCCATCTGAATTTTCACAACTGATTTTTCGGAATTAACACTAAGCGGTAG
CCTGGAAGAAAGGATATTCTTTACTAACATGGTTACCTGCAGCCAGGTGCATTTCAAGTGAAGTGTGCTGATGAA
GTCCTCTATAAGCACAAAGCC

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FIGURE 1218

MAHNPNMTHLKINLPVTALPPLWVRCDSSDPEGTCWLGAELITTNNSITGIVLYVVSCKADKNYSVNLLENLKNLH
KKRHHLSTVTISKGFAQYELFKSSALDDTITASQTAIALDISWSPVDEILQIPPLSSTAI

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FIGURE 1219

CAGGGTCAGCCATGTCATCTGAGCCTCCCCACCACCACAGCCCCCACCATCAAGCTTCAGTCGGGCTGCTGG
ACACCCCTCGGAGCCGTGAGCGCTCACCATCCCCTCTGCGGGGCAACGTGGTCCCAAGCCCACTGCCACTCGCC
GGACGAGGACCTTCTCGGCGACGGTGCGGGCTTCACAGGTCCCCGTCTACAAAGGAGTCTGCAAATGCTTCTGCC
GGTCCAAGGGCCATGGCTTCAATACCCAGCTGATGGCGGCCCCGACATCTTCCTGCACATCTCTGATGTGGAAG
GGGAGTATGTCCAGTGGAAGGCGACGAGGTCACCTATAAAATGTGCTCCATCCCACCCAAGAATGAGAAGCTGC
AGGCCGTGGAGGTCGTCATCACTCACCTGGCACCAGGCACCAAGCATGAGACCTGGTCTGGACATGTCATCAGCT
CCTTAGGAGATGGTGGAAGCACCCCTTGTCTGTGCTTGAGGAGACTTTGCGGGGAGGAGGCAGCAGACACTGGAG
ATGACATTCTTCCACACGAGACGGGGCTTCAGCCGGGGATGGTCCCTCTCAAGTATCTCCTGGAGGAAGGGGTAT
GGGGGGCAGGTGTGGGGTGTGGGGTGTTCGCGCCATCAGCACAGCCTATGACCATTGCAACAACCTCTCACCAT
CTGAAGAGCATTAAAAGCATTTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1220

MSSEPPPPPQPPTHQASVGLLDTPRSRERSPSPLRGNVVPSPLPTRRTRTF SATVRASQVPVYKGVCKCFCRSKG
HGFITPADGGPDIFLHISDVEGEYVPVEGDEVITYKMCSIPPKNEKLQAVEVVITHLAPGTKHETWSGHVISS

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FIGURE 1221

TTGATGCTCTAAATGCAGAAATTAATGAGAGACTTCAATGACTGATATGTCAATTCTTAGTTTCTTTGAACATTTTCC
ATATTTCTCCTGTGAAGTTGCATTTGAGTTTGTCTTTGGGTTCCGGAGGTGAAGAATCAGACAAAGAAAAACAGG
AAATGTTTGCAGTTCATTCTGTCAACTTGCTGTTGAAGAGCATAGGTGCTACTCTGACTGATGTGGATGACCTTA
TATTCAAACTTGCTTATTATGAAATTCGATATCAGTTCTACAAGAGAGATCAGCTTATATGGAGTGTTGTTAGGC
ATTACAGTGAACAGTTCTTGAAACAGATGTATGTCTTGTATTGGGGTTAGATGTACTTGGAAACCCATTTGGAT
TAATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCCTTCAGGGGTGCTGTTCAAGGCCCTGAAG
AATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTAT
CTCGAATCACCGGTTCTGTTGGGAAAAGGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAGAAGAG
AAGAGTTGAGTCGACAGCCCAGAGATTTTGGAGACAGCCTGGCCAGAGGAGGAAAGGGCTTTCTGCGAGGAGTTG
TTGGTGGAGTGACTGGAATAATAACAAAAACCTGTGGAAGGTGCCAAAAAGGAAGGAGCTGCTGGATTCTTTAAAG
GAATTGGAAAAGGGCTTGTTGGGTGCTGTGGCCCGTCCAACCTGGTGGAAATCGTAGATATGGCCAGTAGTACCTTCC
AAGGCATTCAGAGGGCAGCAGAAATCAACTGAGGAAGTATCTAGCCTCCGTCCTCCCTCGCCTGATCCATGAAGATG
GCATCATTCGTCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTGGAAG
GAGAGACTTACCGATACCACTGTGCTATTCTGGAAGCAAGAAGACAATCCTTATGGTTACAAATAGGCGAGTGT
TGTGTATAAAGGAAGTTGAAATCCTGGGCCCTATGTGTGTAGACTGGCAATGTCCATTTGAAGATTTTGTATTTTCT
CTCCTAGTGTCTAGTGAAAAATGTGCTAAAAAATTCAGTTAAGGAACAGGGGTCTGTTCCACAAAAAAGACAGTGCCA
ATCAAGGCTGTGTTTCGAAAAAGTTTACCTGAAGGACACCGCCACAGCAGAGAGAGCATGTAATGCCATTGAGGATG
CACAGTCAACGAGACAGCAGCAAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTGCCATCTT
AAATCACAGACCTCAGGGGCTCCAACAGGGGAGAAAAACAATCACTGGTCTTGTCTATAAGTCACTCTGCTTTATC
TTGCTAAAGACAATTTTCAAGCAATCCTTTAGTTTTAGTTTTCTGGAATAGCTAGTATTGGGTTTTCTAGTTTT
TTCACCTTTTAGTTTTTACTCTAAATTTTGTAAACCATGTATATGCTAGCAGTCCACTTCTACGCCACCACCCAAAT
GGGTCAGACCCCTGAAGAAACGTCACCTCAAACCTCAGAATGAAATTTTCATTAATATTAATAATTGTGAAGCAAAG
GTCAATAGGCTTATATTTAATTAAAGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTTCTTTTGAA
AGGTTTTTTTTATTTTTGTTTTTTTTTGGGGTTTTTTTTTTTTTTTTTGGAGACCGAGTCTTGCTCTGTGCGCCAGGCT
GGAATGCAGTGGTGCATCTTGGCTCAGTGCAATCTCTGCCTCTCGGGTTCAAGCGGTTCTACTGCCTCAGCCTC
CTGAGTAGCTAGGATTACAGGTGTGTGCCACCACGCCTGGGTAATTTTTTTTTTTTTTTTGTATTTTTTAGTAGAGAT
GAGTTTCACCATGTTGGTCACTCTAGTCTCGAACTCCTGACCTTGTGATCCGCATGCCCTCAGCCTCCCAAGTGC
TGGGATTACAGGCATGAGCCACCACGGCCCGCCAAAAGGCTTTAACCCATGAACAAATGTTGGATCCTGACATTT
TGTTTAAAGAGTGATTTGTTCAATAATTGAAGTGAAGTAACTTCTTGGTAAACCAGGTAATTGAATGAAGAAAAG
TCACTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACTGTTTTTTCCCCCTAATAAAGCATAT
TTTACTTTGGTGCTTATTTTTTCTCTCTTGCGAGTCTAATAAAAAAATCTGGACAATCAAACCTTAAAAATAGCTACA
CTCTGCCCTCTGTAATGTAGCATTCATAAAAAATTGGAAGTATTTACATCCTCTTTCAAGATGAGCTTATATGAC
ACAATTATTATTGCTGATACATGAAAATACTGCACCTTAAAGTTTCTCAAGACTCTGAAATATGTAATAATTCAAT
ATTTTTATATTCCCAGAAATTGTTTCTTACAGGTTGAAAGTCTTTTAAAGGCATCACAAATTAACATTTACTCCT
AATGCACGCCTAGAATGTATTTTAAATACTTACTAAGAAGAAATGAAAAATCTTTGGTTGTTTTATATATAAAATAA
GGCATATATAATGACACTGTGTTCTGTGAGGGAGCAGGCCCTGTGAGAATCAATTCAGGACAGTATTTTTTTTTTGT
TCCTTTCTCCATCCTTGATCAGAGATAAACTATTAAAACTTTAAAAAATACTCAAAAATATGTAAGTTTTTTGGT
TGAACCTTTAGATTTGCTCATAATGTTTAAACATAACAACATTTATTTCAAATCACTGAATTCATGGAGATGTGGA
CACGCTTGGTTTGCCTATTTTTGTTTTATGTGTGATAGTGGTCTGTGCATCATCATTCATGTTTTTTAAGGCCTG
GTCATAAAACTTTAAATTTTACTAGTGTTACTTAAATGTATATCTAAAAAGAGAAATGCAGTAACTAATGCCCTAA
ATGTTTGATCTCTGTTTGTCTATTACTTTTTCAAAATTAATTTTTTTCTGTAAAGTATAATATATAAAACTTCTTGC
TTAAATGAATTTCTATATTAGTGGTTAATTGCAGTTTATTAAGGGATCATTATCAGTAATTTTATAGCAACTG
TTCTAGTGTTTTGTTGTTTTTAAACAGAATTAGGAATTTGAGATATCTGATTATATTTTTTATATGAATCACAGC
TGTGACAATGTCCCATATATTTAAGAAATTATATCATACTGATACTATTTGTAACATTTTGATTGATTTAATC
TCCAGGGACAGAAATAATTCATTGGTAAAGTGTAATAATGCGTTTTTTTTAAAAATGCTTTGAGAGGTAATTACTTG
CATATGAGAGAAATAAAACATTTGGCACATTGTTTACAGGTGTGAAAAA

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FIGURE 1222

METSMTDMSILSFFEHFHISPVKLHLSLSLGS GGEE SDKEKQEMFAVHSV NLLK SIGATLTDVDDLIFKLAYYE
IRYQFYKRDQLIWSVVRHYSEQFLKQMYVLVLGLDVLGNPFGLIRGLSEGVEALFYEPFQGAVQGPEEFAEGLVI
GVRSLFGHTVGGAGVVS RITG SVGKGLAAITMDKEYQQKRREELSRQPRDFGDSLARGGKGF LRGVVGGVTGII
TKPVEGAKKEGAAGFFKGIGKGLVGAVARPTGGIVDMASSTFQGIQRAAE STEEVSSLRPPRLIHEDGIIRPYDR
QESEGS D LLENHIKKLEGETYRYHCAIPGSKKTI LMTNRRVLCIKEVEILGLMCVDWQCPFEDFVFPPSVSENV
LKISVKEQGLFHKKDSANQGCVRKVYLKDTATAERACNAIEDAQSTRQQQKLMKQSSVRLLRPQLPS

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FIGURE 1223A

GCCCTGCTTCCCCTTGACCTGCGCCGGGCGGCCATGGACTTGTACAGCACCCCGGCCGCTGCGCTGGACAGGTT
CGTGGCCAGAAGGCTGCAGCCGCGGAAGGAGTTCGTAGAGAAGGCGCGGCGCTCTGGGCGCCCTGGCCGCTGC
CCTGAGGGAGCGCGGGGGCCGCTCGGTGCTGCTGCCCCGCGGGTGCTGAAAACCTGTCAAGGGAGGCTCCTCGGG
CCGGGGCACAGCTCTCAAGGGTGGCTGTGATTCTGAACTTGTATCTTCTCGACTGCTTCAAGAGCTATGTGGA
CCAGAGGGCCCGCGTGCAGAGATCCTCAGTGAGATGCGGGCATCGCTGGAATCCTGGTGGCAGAACCCAGTCCC
TGGTCTGAGACTCACGTTTCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCCGCCTGACATCCGTAGATCTTGA
GGACTGGATGGATGTTAGCCTGGTGCCTGCCTTCAATGTCTGGGTGAGGCCGGCTCCGCGGTCAAACCCAAGCC
ACAAGTCTACTCTACCTCCTCAACAGTGGCTGCCAAGGGGGCGAGCATGCGGCCTGCTTCACAGAGCTGCGGAG
GAACTTTGTGAACATTGCCCCAGCCAAGTTGAAGAACCTAATCTTGCTGGTGAAGCACTGGTACCACCAGGTGTG
CCTACAGGGGTGTGGAAGGAGACGCTGCCCCGGTCTATGCCCTGGAATTGCTGACCATCTTCGCCTGGGAGCA
GGGCTGTAAAGAAGGATGCTTTCAGCCTAGGCGAAGGCCTCCGAACGTCTGCTGGGCCTGATCCAACAGCATCAGCA
CCTGTGTGTTTTCTGGACTGTCAACTATGGCTTCGAGGACCCTGCAGTTGGGCAGTCTTGACAGCGGCACGTTAA
GAGACCCAGGCCTGTGATCCTGGACCCAGCTGACCCACATGGGACCTGGGGAATGGGGCAGCCTGGCACTGGGA
TTTGATGCCAGGAGGAGCAGCATCCTGCTATGACCACCCATGCTTCTGAGGGGGATGGGGACCCAGTGCAGTC
TTGGAAGGGGGCGGGCCTTCCACGTGCTGGATGCTCAGGTTTGGGCCACCCATCCAGCTAGACCCTAACCAGAA
GACCCCTGAAAACAGCAAGAGCCTCAATGCTGTGTACCCAAGAGCAGGGAGCAAACCTCCCTCATGCCAGCTCC
TGGCCCCACTGCGGAGCCAGCATCGTACCCCTCTGTGCCGGGAATGGCCTTGACCTGTCTCAGATCCCCACCAA
GGAGCTGGACCGCTTCATCCAGGACCACCTGAAGCCGAGCCCCAGTTCCAGGAGCAGGTGAAAAAGGCCATCGA
CATCATCTTGCGCTGCCTCCATGAGAACTGTGTTCAAGGCCTCAAGAGTCAGTAAAGGGGGCTCATTGGCCG
GGGCACAGACCTAAGGGATGGCTGTGATGTTGAACATCATCTTCTCAACTGCTTCACGGACTACAAGGACCA
GGGGCCCCGCGCGCAGAGATCCTTGATGAGATGCGAGCGCACGTAGAATCCTGGTGGCAGGACCAGGTGCCAG
CCTGAGCCTTCAGTTTCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCCAGCTGGTGTCCACAGCCCTGAAGAG
CTGGACGGATGTTAGCCTGCTGCCTGCCTTCGATGCTGTGGGGCAGCTCAGTTCTGGCACCAAACCAATCCCCA
GGTCTACTCGAGGCTCCTCACCAGTGGCTGCCAGGAGGGCGAGCATAAGGCCTGCTTCGCAGAGCTGCGGAGGAA
CTTCATGAACATTGCCCCGTGCAAGCTGAAGAACCTGATTCTGCTGGTGAAGCACTGGTACCGCCAGGTGCGGC
TCAGAACAAAGGAAAAGGACCAGCCCTGCCTCTCTGCCCCAGCCTATGCCCTGGAGCTCCTCACCATCTTTGC
CTGGGAGCAGGGCTGCAGGCAGGATTGTTTCAACATGGCCCAAGGCTTCCGGACGGTGTGTTGGGCTCGTGCAACA
GCATCAGCAGCTCTGTGTCTACTGGACGGTCAACTATAGCACTGAGGACCCAGCCATGAGAATGCACCTTCTTGG
CCAGCTTCGAAAACCCAGACCCCTGGTCTCTGGACCCCGCTGATCCACCTGGAACGTGGGGCACGGTAGCTGGGA
GCTGTTGGCCAGGAAGCAGCAGCGCTGGGGATGCAGGCCTGCTTCTGAGTAGAGACGGGACATCTGTGCAGCC
CTGGGATGTGATGCCAGCCCTCCTTTACCAAACCCAGCTGGGGACCTTGACAAGTTTCATCAGTGAATTTCTCCA
GCCAACCCGCCAGTTCTTGGCCAGGTGAACAAGGCCGTTGATACCATCTGTTTCAATTTTGAAGGAAAACCTGCTT
CCGGAATTCTCCCATCAAAGTGATCAAGGTGGTCAAGGGTGGCTCTTCAGCCAAAGGCACAGCTCTGCGAGGGCCG
CTCAGATGCCGACCTCGTGGTGTTCCTCAGCTGCTTCAGCCAGTTCACTGAGCAGGGCAACAAGCGGGCCGAGAT
CATCTCCGAGATCCGAGCCAGCTGGAGGCATGTCAACAGGAGCGGCAGTTGAGGTCAAGTTTGAAGTCTCCAA
ATGGGAGAAATCCCCGCGTGTGAGCTTCTCACTGACATCCCAGACGATGCTGGACCAGAGTGTGGACTTTGATGT
GCTGCCAGCCTTTGACGCCCTAGGCCAGCTGGTCTCTGGCTCCAGGCCAGCTCTCAAGTCTACGTCGACCTCAT
CCACAGCTACAGCAATGCGGGCGAGTACTCCACCTGCTTCACAGAGCTACAACGGGACTTCATCATCTCTCGCCC
TACCAAGCTGAAGAGCCTGATCCGGCTGGTGAAGCACTGGTACCAGCAGTGTACCAAGATCTCCAAGGGGAGAGG
CTCCCTACCCCCACAGCACGGGCTGGAACCTCTGACTGTGTATGCCTGGGAGCAGGGCGGGAAGGACTCCAGTT
CAACATGGCTGAGGGCTTCCGCACGGTCTGGAGCTGGTCAACAGTACCGCCAGCTCTGTATCTACTGGACCAT
CAACTACAACGCCAAGGACAAGACTGTTGGAGACTTCTGAAACAGCAGCTTCAGAAGCCCAGGCCTATCATCCT
GGATCCGGCTGACCCGACAGGCAACCTGGGCCACAATGCCCGCTGGGACCTGCTGGCCAAGGAAGCTGCAGCCTG
CACATCTGCCCTGTGCTGCATGGGACGGAATGGCATCCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTGTGAAG
TTGAGAAAATCAGCGTCTACTGGATGAAGAGAAGATGGACACCAGCCCTCAGCATGAGGAAATTCAGGGTCCC
CTACCAGATGAGAGAGATTGTGTACATGTGTGTGTGAGCACATGTGTGCATGTGTGTGCACACGTGTGCATGTGT
GTGTTTTAGTGAATCTGCTCTCCAGCTCACACACTCCCCTGCCTCCCATGGCTTACACACTAGGATCCAGACTC
CATGGTTTGACACCAGCCTGCGTTTGCAGCTTCTGTCACTTCCATGACTCTATCCTCATACCACCCTGCTGC

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FIGURE 1223B

TTCCCACCCAGCTGAGAATGCCCCCTCCTCCCTGACTCCTCTCTGCCCATGCAAATTAGCTCACATCTTTCTCTCC
TGCTGCAATCCATCCCTTCTCTCCCATTTGGCCTCTCCTTGCCAAATCTAAATACTTTATATAGGGATGGCAGAGAG
TTCCCATCTCATCTGTGACCCACAGTCATTTGGTACTGGCTACCTGGAGCCTTATCTTCTGAAGGGTTTTAAAGA
ATGGCCAATTAGCTGAGAAGAATTATCTAATCAATTAGTGATGTCTGCCATGGATGCAGTAGAGGAAAGTGGTGG
TACAAGTGCCATGATTGATTAGCAATGTCTGCACTGGATATGGAAAAAGAAGGTGCTTGCAGGTTTACAGTGTA
TATGTGGGCTATTGAAGAGCCCTCTGAGCTCGGTGTCTAGCAGGAGAGCATGCCCATATTGGCTTACTTTGTCTG
CCACAGACACAGACAGAGGGAGTTGGGACATGCATGCTATGGGGACCCTCTTGTGGACACCTAATTGGATGCCT
CTTCATGAGAGGCCTCCTTTTCTTACCTTTTATGTCTGCACTCCTCCCTAGTTTACACATCTTGATGCTGTGGC
TCAGTTTGCTTCTCTGAATTTTTATTGGGTCCCTGTTTTCTCTCTAACATGCTGAGATTCTGCATCCCCACAGC
CTAAACTGAGCCAGTGGCCAAACAACCGTGCTCAGCCTGTTTTCTCTCTGCCCTCTAGAGCAAGGCCACCAGGTC
CATCCAGGAGGCTCTCCTGACCTCAAGTCCAACAACAGTGTCCACACTAGTCAAGGTTTCCAGCCAGAAAAACAGAA
AGCACTCTAGGAATCTTAGGCAGAAAGGGATTTTATCTAAATCACTGGAAAGGCTGGAGGAGCAGAAAGGCAGAGG
CCACCCTGGACTATTGGTTTCAATATTAGACCCTGTAGCCGAATCAGAGGCCAGAGAGCAGCCACTGCTACTG
CTAATGCCACCCTACCCCTGCCATCACTGCCCCACATGGACAAAACCTGGAGTCGAGACCTAGGTTAGATTCTCTG
CAACCACAAAACATCCATCAGGGATGGCCAGCTGCCAGAGCTGCGGGAAGACGGATCCACCTCCCTTTCTTAGCA
GAATCTAAATTACAGCCAGACCTCTGGCTGCAGAGGAGTCTGAGACATGTATGATTGAATGGGTGCCAAGTGCCA
GGGGGCGGAGTCCCCAGCAGATGCATCCTGGCCATCTGTTGCGTGGATGAGGGAGTGGGTCTATCTCAGAGGAAG
GAACAGGAAAACAAAGAAAGGAAGCCACTGAACATCCCTTCTCTGCTCCACAGGAGTGTCTTAGACAGCCTGACTC
TCCACAAAACCACTGTATAAACTTACCTGCTAGGAATGCTAGATTGAATGGGATGGGAAGAGCCTTCCCTCATTAT
TGTCATTCTTGGAGAGAGGTGAGCAACCAAGGGAAGCTCCTCTGATTACCTAGAACCTGTTCTCTGCCGTCTTT
GGCTCAGCCTACAGAGACTAGAGTAGGTGAAGGGACAGAGGACAGGGCTTCTAATACCTGTGCCATATTGACAGC
CTCCATCCCTGTCCCCCATCTTGGTGCTGAACCAACGCTAAGGGACCTTCTTAGACTCACCTCATCGATACTGC
CTGGTAATCCAAAGCTAGAACTCTCAGGACCCCAAACTCCACCTCTTGGATTGGCCCTGGCTGCTGCCACACACA
TATCCAAGAGCTCAGGGCCAGTTCTGGTGCCAGCAGAGACCTGCTCTGCCAAGTTGTCCAGCAGCAGAGTGGCC
CTGGCCTGGGCATCACAAAGCCAGTGATGCTCCTGGGAAGACCAGGTGGCAGGTCGCAGTTGGGTACCTTCCATT
CCACCACACAGACTCTGGGCCTCCCGCAAAATGGCTCCAGAATTAGAGTAATTATGAGATGGTGGGAACCAGAG
CAACTCAGGTGCATGATACAAGGAGAGGTTGTCTCTGGGTAGGGCAGAGAGGAGGGCTTGCTCATCTGAACAGG
GGTGTATTTCATTCCAGGCCCTCAGTCTTTGGCAATGGCCACCCTGGTGTGGCATATTGGCCCCACTGTAACCT
TTGGGGGCTTCCCGGTCTAGCCACACCCTCGGATGGAAAGACTTGACTGCATAAAGATGTCAGTTCTCCCTGAGT
TGATTGATAGGCTTAATGGTCACCCTAAAAACACCCACATATGCTTTTCGATGGAACCAGATAAGTTGACGCTAA
AGTTCTTATGAAAAATACACACGCAATAGCTAGGAAAACACAGGGAAAGAAGAGTTCTGAGCAGGGCCTAGTCT
TAGCCAATATTAAACATACTATGAAGCCTCTGATACTTAAACAGCATGGCGCTGGTACGTAAATAGACCAATGC
AGTTAGGTGGCTCTTTCCAAGACTCTGGGGAAAAAAGTAGTAAAAAGCTAAATGCAATCAATCAGCAATTGAAAG
CTAAGTGAGAGAGCCAGAGGGCCTCCTTGGTGGTAAAAGAGGGTTGCATTTCTTGCAGCCAGAAGGCAGAGAAAG
TGAAGACCAAGTCCAGAACTGAATCCTAAGAAATGCAGGACTGCAAAGAAATTGGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTAATTTTTTAAAAGTTTTTATTTCGGAATCCGCG

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FIGURE 1224

MDLYSTPAAALDRFVARRLQPRKEFVEKARRALGALAAALRERGGRLGAAAPRVLKTVMKGGSSGRGTALKGGCDS
ELVIFLDCFKSYVDQRRARRAEILSEMRALESWWQNPVPGRLRTFPEQSVPGALQFRLTSVDLEDWMDVSLVPAF
NVLGQAGSAVKPKPQVYSTLLNSGCQGGEGAACFTELRRNFVNIRPAKLKNIILLVKHWYHQVCLQGLWKETLPP
VYALELLTIFAWEQGCKKDAFSLGEGRLTVLGLIQHQHLCVFWTVNYGFEDPAVGQFLQRHVKRPRPVILDPAD
PTWDLGNGAAWHWDLHAQEAASCYDHPCFLRGMGDPVQSWKGPGLPRAGCSGLGHP IQLDPNQKTPENSKSLNAV
YPRAGSKPPSCPAPGPTAEPASYPSVPGMALDLSQIPTKELDRFIQDHLKPSPOFQEQVKKAIIDILRCLHENCV
HKASRVSKGGSFGRGTDLRDGCDELIIIFLNCFTDYKDQGPRAEILDEMRAHVESWWQDQVPSLSLQFPEQNVP
EALQFQLVSTALKSWTDVSLPAPDAVGQLSSGTPNPQVYSRLLTSGCQEGEHKACFAELRRNFMNIRPVKLKN
LILLVKHWYRQVAAQNKGKGPAPASLPPAYALELLTIFAWEQGCRQDCFNMAQGFRTVLGLVQQHQQLCVYWTVN
YSTEDPAMRMHLLGQLRKPRPLVLDPADPTWNVGHGSWELLAQEAALGMQACFLSRDGTSPQPDVMPALLYQT
PAGDLDFISEFLQPNRQFLAQVNKAVDITCSFLKENCFRNSPIKVIKVVKGGSSAKGTALRGRSDADLVVFLSC
FSQFTEQGNKRAEIISEIRAQLEACQQRQFEVKFEVSKWENPRVLSFSLTSQTMLDQSVDFDVLPAFDALGQLV
SGSRPSSQVYVDLIHSYSNAGEYSTCFTELQDFIISRPTKLKSLIRLVKHWYQQCTKISKGRGSLPPQHGLELL
TVYAWEQGKDSQFNMAEGFRTVLELVTQYRQLCIYWTINYNKDKTVGDFLKQQLQKPRPIILD PADPTGNLGH
NARWDLAKEAAACTSALCCMGRNGIPIQPWPVKA AV

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FIGURE 1225

CTTGTGTTCCCCGCCGCCGCTCGCTGACCCAGCCCGCCAGGCGCTCCTGACCGTCGCTTCCTCCGGTCCCAG
GTCCCCGGCCCTCGCCTCAGCCCCGGCCCTGGTCCCCAGCCCTCGTCGCAGCCCCGGCCGCCGCCGCCAT
GTCCAAGGAGGAGCGCCCCGGTCGGGAGGAGATCCTGGAGTGCCAGGTGATGTGGGAGCCTGACAGTAAGAAGAA
CACGCAGATGGACCGCTTCCGGGCGGCTGTGGGCGCCGCTGCGGCCTGGCGCTGGAGAGTTATGATGACTTGTA
CCATTGGTCCGTTGAGTCATATTAGACTTCTGGGCAGAGTTCTGGAAATTCAGTGGAATTGTCTTCTCACGTGT
GTATGATGAGGTTGTGGACACATCGAAAGGAATCGCAGATGTCCCGAGTGTTCAAAGGCAGTCGGCTCAACTA
TGCAGAAAACCTCCTGCGGCACAAAGAGAAATGACAGAGTTGCCCTTTACATTGTAAGGGAAGGCAAAGAGGAAAT
TGTGAAGGTGACTTTTGAAGAGCTGAGGCAAGGAGTGGCTTTGTTTGACAGCAATGAGGAAAATGGGTGCGAA
GAAAGGAGATCGGGTTGTTGGTTATTTACCCAACAGTGAGCACGCTGTCGAGGCGATGCTGGCTGCGGCAAGCAT
TGGTGCCATCTGGAGCTCCACGTCCCCGACTTCGGTGTGAATGGTGTGCTGGACCGTTTTCTCAAATTCAGCC
AAAGCTCATCTTCTGTGGAGGCTGTTGTCTATAATGGCAAAGAGCACAAACCACATGGAAGAGCTGCAGCAGGT
GGTTAAAGGCCTACCAGACTTGAAGAAAGTGGTGGTGATTCTTATGTGTCTCCAGAGAGAACATAGACCTTTTC
AAAGATTCCAAACAGTGTTTCTGGATGACTTTCTTGCCACCGGCACCAGTGAGCAGGCCCCGCAGCTGGAGTT
CGAGCAGCTGCCCTTCAGCCACCCACTGTTTCATCATGTTCTCATCGGGCACCACGGGCGCACCCAAAGTGATGGT
GCATTCCGCTGGGGGCACCCCTCATCCAGCATCTGAAGGAGCACCTGCTGCACGGCAACATGACCAGCAGTGACAT
CCTCCTGTGCTACACCACGGTGGGCTGGATGATGTGGAAGTGGATGGTGTCCCTTCTGGCCACAGGAGCGGCCAT
GGTCTTGATGATGGCTCCCCCTGGTGCCACGCCCAATGTGCTCTGGGACCTGGTTGACAGGATAGGCATCAC
TGTCTGGTAACTGGGGCCAAGTGCTGTGCTGCTGGAAGAGAAGGCCATGAAGCCGGTGGAAACCCACAGTCT
CCAGATGCTCCACACGATCCTGTCCACTGGCTCCCCACTGAAAGCCCAGAGCTACGAGTATGTCTACAGGTGCAT
CAAGAGCAGCATCCTCCTGGGCTCCATCTCAGGAGGACCCGACATTATCTCCTGCTTCATGGGGCCACAATTTTTTC
TCTTCTGTGTATAAAGGGGAGATTAGGCCCGGAACCTGGGCATGGCCGTGGAAGCGTGGAACGAGGAAGGAAA
GGCGGTCTGGGGAGAGAGCGGCGAGCTGGTGTGTACTAAGCCGATCCCTTGCCAGCCACACACTTCTGGAACGA
TGAGAACGGCAACAAGTACAGGAAGGCGTATTTCTCCAAATTCAGGATCTGCGGCTCATGGCGACTACTGCAG
AATCAACCCCCAAGACCGGGGGCATCGTCATGCTTGCCGAGTGACGGCACCCCTCAACCCCCAAGGGGTGCGGTT
CGGCAGCTCGGAAATCTATAACATTGTGGAATCCTTCAGGAGGTGGAGGACAGCCTGTGTGTCCCCAGTATAA
CAAGTACAGGGAGGAGAGGGTGATCCTCTTCTGAAGATGGCCTCCGGGCACGCTTCCAGCCTGACTTGGTTAA
GAGGATCCGTGACGCCATCCGCATGGGCTTGTCTGCGCGACAGTGCCAGCCTCATCCTGGAAACCAAGGGCAT
CCCGTATACGCTCAACGGCAAGAAAGTGGAAGTTGCCGTCAAACAGATCATCGCTGGAAGCCGTGGAGCAAGG
AGGTGCTTTCTCGAACCCCGAGACCTGGATCTGTACCGGGACATCCCTGAGCTGCAGGGCTTCTGAGTCAGACT
GGCTGGCGTGTCACTCAGCCGCACCCGTGTGCACTGTAACTTTTGTGTGCTCAAGAAATTATACAGAAACCTACA
GCTGTTGTAAAAGGATGCTCGCACCAAGTGTCTGTAGGCTTGGGGAGGGATCGTTTCTGTGTTTGTAAATCT
GGTGGGTACCTGGATCTTCCACACGAGTGGGATTCTGGCCTTCAGAGACCAGGAGGGAGTGTCTGGGCCGCAGGT
GTGGCACTGTGGTGAGAGTGTGTCTTTGCACACACAGTGCAAGTGGGAACGGTGGGGCTGGCTGGTGTGCTGAAGA
CAGACACACTCCTGAGCCAAGGTCTTGTCTTCAACCTCCCCGTCCCGTTGTCCATTTTGTCTGTGAAGGTGCA
AATCCCTTTCTTCCCTTCCCATCTCAGGCTCTCCTGTTTTCCCTCAGGGTCCAGTATGCCTTTGAGCTTTAGCTG
TTAGAAAGGAACCCCGTGACTTGACACAGCTTTCACAGCTGGCTGCTAGGACCGGCGGGCTGGGTGTTACAGTG
TGTCTGTGTCATGGATGCAATGCAGGCCCTGGAGGACTGTGCGTCACCCGTCAACCAGAGCGTGCTCCGGGCCA
GCTTCCCTCCAAGGAATGAGTGGATTTATACAGGATCTCTTTATGACAGACTGAATGGCTTTACATGTTTCT
AATGTGAATTAGGCATGTGAAGCAGTGGGTGTCCACCCGTGTCCCTCATGGGTGAGCCCTCCAGCTGTGAGCCCA
GGCAGTGTGGTCACCGAGTGAGGACCCCTCCTCACCAGGAACCGCATCCCTGTGCTGCCTCCACCTGAGAGTTGCT
AGGGGGTTCTTGTGAGATCATGTATCAGCACCCCTAAGTCAAGTCACGGGTTTTCCATAGCCAGGCAGTTGGTA
TGTACAATTCAGTTCAGCGTATGAACTTGTATCTTAATCTGATGTCCATTTTTATATTTTTTGAAGTGTAGCAC
AATGAAATCCTTTCTTGAATCATTTTCTTTTGGATTATAAAAATATGGGGGAAGTGCTATGATGAATTTTATG
CAATAAATGTATACATGTGTGCACATGC

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FIGURE 1226

MSKEERPGRREEILECQVMWEPDSKKNTQMDRFRAAVGAACGLALESYDDLYHWSVESYSDFWAEFWKFSGIVFSR
VYDEVVDTSKGIADVPEWFKGSRLNYAENLLRHKENDRVALYIVREGKEEIVKVTFEELRQGVALFAAAMRKMGA
KKGDRVVGYPNSEHAVEAMLAASIGAIWSSTSPDFGVNGVLDLRFSSQIQPKLIFSVEAVVYNGKEHNHMEKLQQ
VVKGLPDLKKVVVIPYVSSRENIDLSKIPNSVFLDDFLATGTSEQAPQLEFEQLPF SHPLFIMFSSGTTGAPKCM
VHSAGGTLIQHLKEHLLHGNMTSSDILLCYTTVGWMMWNWMVSLLATGAAMVLYDGSPLVPTPNVLWDLVDRIGI
TVLVTGAKWLSVLEEKAMKPVETHSLQMLHTILSTGSPLKAQSYEYVYRCIKSSILLGSISGGTDIISCFMGHNF
SLPVYKGEIQARNLGMAVEAWNEEGKAVWGESGELVCTKPIPCQPTHFWNDENGKRYRKAYFSKFPGIWAHGDYC
RINPKTGGIVMLGRSDGTLNPNVRFSGSEIYNIVESFEEVEDSLCVPQYNKYREERVILFLKMASGHAFQPDIV
KRIRDAIRMGLSARHVPSLILETKGIPYTLNGKKVEVAVKQIIAGKAVEQGGAFSNPETLDLYRDIPELQGF

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FIGURE 1227

CGCTGTTGTTAGTCACCGCGGAGCCGCCGAAACCTGCAGGAGTCTACTATGCAACTGCATACTGGATGCGCTGCTG
AAAAGACAGTACAAGTCAAAAAATGTAATGGACAAGAATGGGGACGCCTATGGCTTTTACAATAACTCTGTGAAAA
CCACAGGCTGGGGCATCCTGGAGATCAGAGCTGGCTATGGCTCTCAAACCCTGAGCAATGAGATCATCATGTTTG
TGGCTGGCTTTTTTGGAGGGTTACCTCAGTGCCTCACACATGAATGACCACTACACAAACCTCTACCCACAGCTGA
TCACGAAACCTTCCATCATGGATAAAGTGCAGGATTTTATGGAGAAGCAAGATAAGTGGACCCGAAAAATATCA
AAGAATACAAGACTGATTCATTTTGGAGACATACAGGCTATGTGATGGCACAATAGATGGCCTCTATGTAGGAG
CAAAGAAGAGGGCTATATTAGAAGGGACAAAGCCAATGACCCTGTTCCAGATTCAGTTCCTGAATAGTGTGGAG
ATCTATTGGATCTGATTCCCTCACTCTCTCCACAAAAAACGGCAGCCTAAAGGTTTTTAAGAGATGGGACATGG
GACATTGCTCCGCTCTTATCAAGGTTCTTCCTGGATTTGAGAACGTCCTTTTTTGCTCACTCAAGCTGGTACACGT
ATGCAGCCATGCTCAGGATATATAAACACTGGGACTTCAACATCATAGATAAAGATACCAGCAGTAGTCGCCTCT
CTTTCAGCAGTTACCCAGGGTTTTTGGAGTCTCTGGATGATTTTTACATTCTTAGCAGTGGATTGATATTGCTGC
AGACCACAAACAGTGTGTTTAAATAAACCCCTGCTAAAGCAGGTAATACCCGAGACTCTCCTGTCTGGCAAAGAG
TCCGTGTGGCCAATATGATGGCAGATAGTGGCAAGAGGTGGGCAGACATCTTTTCAAAATACAACCTCTGGCACCT
ATAACAATCAATACATGGTTCTGGACCTGAAGAAAGTAAAGCTGAACCACAGTCTTGACAAAGGCACCTCTGTACA
TTGTGGAGCAAATTCCTACATATGTAGAATATTCTGAACAACTGATGTTCTACGGAAAGGATATTGGCCCTCCT
ACAATGTTCTTTCCATGAAAAAATCTACAACCTGGAGTGGCTATCCACTGTTAGTTCAGAAAGCTGGGCTTGGACT
ACTCTTATGATTTAGCTCCACGAGCCAAAATTTCCGGCGTGACCAAGGGAAAGTGACTGATACGGCATCCATGA
AATATATCATGCGATACAACAATTATAAGAAGGATCCTTACAGTAGAGGTGACCCCTGTAATACCATCTGCTGCC
GTGAGGACCTGAACTCACCTAACCCAAGTCCTGGAGGTTGTTATGACACAAAGGTGGCAGATATCTACCTAGCAT
CTCAGTACACATCCTATGCCATAAGTGGTCCACAGTACAAGGTGGCCTCCCTGTTTTTCGCTGGGACCGTTTCA
ACAAAACTCTACATCAGGGCATGCCAGAGGTCTACAACCTTGATTTTATTACCATGAAACCAATTTTGAACTTG
ATATAAAATGAAGGAGGGAGATGACGGACTAGAAGACTGTAAATAAGATACCAAAGGCATATTTTAGCTATGTT
TTTCCCATCAGAATTATGCAATAAAATATATTAATTTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 1228

MPAEKTVQVKNVMDKNGDAYGFYNNSVKTITGWGILEIRAGYGSQTLSEIIMFVAGFLEGYLTAPHMNDHYTNLY
PQLITKPSIMDKVQDFMEKQDKWTRKNIKEYKTDSFWRHTGYVMAQIDGLYVGAKKRAILEGTKPMTLFQIQFLN
SVGDLLDLIPSLSP TKNGSLKVFKRWDMGHCSALIKVLPGFENVLFAHSSWYTYAAMLRIYKHWDNIIDKDTSS
SRLSFSSYPGFLESLLDDFYILSSGLILLQTTNSVFNKTLKQVIPETLLSWQVRVANMMADSGKRWADIFSKYN
SGTYNNQYMVLDLKKVKLNHSLDKGTLYIVEQIPTTYVEYSEQTDVLRKGYWPSYNVPFHEKIYNWSGYPLLQKL
GLDYSYDLAPRAKIFRRDQGVKTD TASMKYIMRYNNYKDPYSRGDPCNTICCREDLNSPNPSPGGCYDTKVADI
YLASQYTSYAISGPTVQGGLPVFRWDRFNKTLHQGMPEVYNFDFITMKPILKLDIK

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FIGURE 1229

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG
GGCCCGCCCGGCTCCCCGCCCGCCGCGGCCCGAACTCATGCAGCTCCGAGCGAGCGAGCGGGCGCCAGCCCAGCG
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTTCCCGGGGAGATCATGAAACGAGGTGCGCTTCCAGC
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCAACTACTTGGTCCCAGAATTCCCGATCCAGCATAGGAGA
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG
GTCCAGGTGCCTGTGAGCCCCGGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG
TTCATCAGGCCCAAGAAGTACATCGTGTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAACCTGACCAATGAAGAATTT
AAGGAGATGGGAATGCCTGAACTAGATGAATACACCATGGAGAGGGTCTAGAGGAATTTGAGCAGCGATGCTAC
GACAATATGAATCATGCCATAGAGACTGAGGAAGGCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC
TGCCAGTCTCCTGATGGTGAGGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGCACCAGGCC
TGTTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGGACATGTGCCCTGGGGGTTTCAGCCAAAATGT
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCACCCGTAGCGGAACCAAGTGGGTCCACGTTAGCTGTGCT
CTGTGGATCCCTGAGGTGAGCATTGGCAGCCCAGAGAAGATGGAGCCCATCACCAAGGTGTACACATTCCAGC
AGCCGGTGGGCGCTAGTGTGCAGCCTCTGCAATGAGAAGTTTGGGGCCTCTATACAGTGCTCTGTGAAGAACTGC
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGCCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA
GTCAAGTTCAAGTCTATTGCCCAAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGAAGGGGGCTGCA
CAGGAGAATGGGGCCCTGAGTGTTCCTCCCGGAATCCGCTGGAGCCCTTTGCCAGCCTTGAGCAGAACC GGAG
GAGGCCACCGGGTGAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG
CTGGATGTTGCCAGGGCTCTGCGGTGCTTGAGGAAGTAGTGGATTTCTGTACCAGTACTGGAAGTTGAAGAGG
AAGGTCAACTTCAACAAGCCCCGTATCACCCAAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAACGCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC
TCTCAGACCCTTGTACACACCACAGCATGAGGTTGTGTTGGTTAAAAATATTTATGGGCTGGTAACTCATTGTA
CATATGTGAAAACCTGCTACTGAGTGGGGAGCTTCTTTGTGGTTTTTTTTTTTTTAAAAACACTTCCCATTAATC
TTTACTGTTTTGTAAAGATCAAAATGGGGTGTGCTTCCCCACCCCACTTCCTTCATTCTAGAGCTAGAGTGAATGA
GCCCCAAGAAAATGACCAAGGAGTTGACTCAGGATGGTTTACAGACTGATTTAGAAAACAGAACGGATTTTCAT
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTTGTTAGTCCGGGGAAACACACCTAGGTGCTGGTGTATGGG
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCACTTTGTTTCTTGGGTAATTCACAGGGGAATTTCCCA
GTACTGTATGAGAGCAGAGCAGGCAGTGGGTGCTGATGTGTGTGCATGAGCTGTATGTACACATGCATATATCTG
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCATCACTGAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC
CGTGTCCATCCATGTCTCTGTTGTGTGTCTGTGTGCGGGTATGGGTGGGATTCTGGTGGACAGGGGTGTGAGAT
CTGTCTGAGGAGCCCCAGTCATGCTCAGCACGCTACAGATGTGTTGTTTGTACACTGAGATTGCTGAATGTCGT
GGCTGTTGGCTGCCGAGCCTCAGCTGCTGGCAATTCCTTCTGCTGTTTGTGCTTTTGTGCTCCCCACTTTCC
ATCACCTCTGGAGTCCCGTCTGGACGTCCCTTCCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA
ACTCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTTCTGGCCTGAAGC
AGTCTGCACTGAAAAGGTACCCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAGC
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAAGTCTTAAAGGGAGCATTAGAGAT
CCTTTTAATACACGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCAGACCAGGTTAGGATTCTTGGGAAGGC
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCCCTG
GTGGTGAGTGTAAGAAGACTTTGCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG
ATTGAGAAGGATAAACTGGAATCCTGGTAAGAAGCCTTTATGCCAGCCCGACACCTGCTGTAATTGGGGTGCATG
AGCTATGGAGTCAGATAGTTGTTGGGAGGGGGAGGACAAGAAGTCTATTGTTTGGACTGTGTTTGTCTCACAATC
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAACTCTTTTCTGTAAGTTACTCAGATTAACAT
GCACTTCTAATTCTAAACATTTTTTTTTTGGAGTCATCACTGTCGCTGTTTAAGTAGAACAATGCCAACGATGTATG
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

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FIGURE 1230

MKRGRLPSSSEDSDDNGSLSTTWSONSRSQHRRSSCSRHEDRKPSEVFRDITAMKLHDSYQLNPDEYYVLADP
WRQEWKGVQVPVSPGTIPQPVARVVSEKSLMFIRPKYIVSSGSEPPPELGYVDITLADSVCRYDLNDMDAAW
LELTNEEFKEMGMPELDEYTMERVLEEFQRCYDNMNHAIETEEGLGIEYDEDVVCQSPDGEDGNEMVFCDK
CNICVHQACYGILKVPEGSWLCRTALGVQPKLLCPKKGGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI
TKVSHIPSSRWALVCSLCNEKFGASIQCSVKNCRTAFHVTCAFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE
ESLGKGAQENGAPCECSPRNPLEPFASLEQNREEAHRVSVRKQKLQQLLEDEFYTFVNLLDVARALRLPEEVVDFL
YQYWKLRKVNFNKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDTDTL

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FIGURE 1231

ATTCAAGGGAGGCAGGCGCTTTGGAAGTTTGTAACACCAACTTTCTGAGTAAGGGAGGAGCACTTTTTTCCAA
AAAGGAAAGAACGTCTCTACTGGGTTTTTTTCTCCTGATATTCAGCATTAGAGTAGAAAAGAACTATTGTTTG
GCCACATTAGCCGTGGTTAGCAGGTGCTGCAGCCTTTGCCACTGTTATTATTTTTAAAGGGCAGAAATGCCTGAA
GGTGAAGACTTTGGACCAGGCAAAAGCTGGGAAGTTATCAATTCCAAACCAGATGAAAGACCCAGGCTCAGCCAC
TGTATTGCAGAATCATGGATGAATTTTCAGCATATTTCTTCAAGAAATGTCTCTTTTTTAAACAGCAGAGCCCTGGC
AAGTTTTGTCTCCTGGTCTGTAGTGTGTGCACATTTTTTACGATCTTGGGAAGTTACATTCCTGGGGTTATACTC
AGCTATCTACTGTTACTGTGTGCATTTTTTGTGTCCATTGTTTAAATGTAATGATATTGGACAAAAAATTTACAGC
AAAATTAAGTCAGTTCTGCTGAAACTGGATTTTTGGAATTGGAGAATATATTAATCAGAAAGAAACGTGAGAGATCT
GAAGCAGACAAAGAAAAAAGTCACAAAGATGACAGTGAATTAGACTTTTCAGCTCTTTGTCTTAAGATTAGCCTC
ACGGTTGCTGCCAAAGAGTTATCTGTGTCTGACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTC
AACCTTTTCAGAAGGATACACTCCACAGACAGACACTTCTGATGATCTTGACCGACCCAGTGAGGAAGTTTTCTCT
AGAGATCTTTTCAGATTTTTCCATCTCTAGAAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTG
CCCCTGAGCTCAAGAGAAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAAGAGACGCAATCAGCAGCT
GGTCTCACCCCTTCTCTGAACAGTGACCAACCTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCT
GCAGTGACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTTCTCAGGCTGCCCCATCCCAGAA
GAGGACACAGACACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTGAGAGTGAA
TTGGGACTTACACAAGACCAGGAAGCAGAAGCACAGCAAAATAAGAACTCTTCAGGTTTCCTTTCAAATCTGCTG
GGAGGCCATTAACTCTAGGAATCAGCTTGCAACAGAGCACAAAAAACCAAAAAAATTTCAAACAAGAAAAA
AAAAAAGGAAAGAAAAAATTGAACTGTAAGCTTTAATGATTACTTTAGATTTGTTTTATTTTCCCTCCTG
CAGTGAATTAATTGGATATATATCAGCTGACACTGATAGATTGATATTTCTGATCGTTATTTTTGTGTCTATAAGC
ATGGAATGAACCTTATACACACCCTGTGTTGTGCAGAGATAAATATTAGGGTTGTTTTTAAAGCAAAAAGAAA
AAAACAAAACCAAACCTATTAAATCCTCCTATAAATATTCTTTTTCTTTACAGTTTTTCAAGCATGCAAAACAG
TTTATTGTAACCTACTGAAAAATATTAACAATTAATTGTGAATACATGCTGTTACCAGCTTCCTTATTCTAATA
CCTGGAAAATTTTTTTTTCAACGGATAGATTTTGATGTAAAAAAGACCGAAATTATCAAGGTATCTTAGTTGAAG
GACTTGGGAAATACTATCAAATTAATTTCTTAGGAAAAATTTAAAGTATATTTAAGTACTCTGGATAGACTG
AAACGTTTCCATGTTATTTCTGCAGTTGTAGACTTAGGCTTATTTGTAAAGAAGCATGCTCCATTGACTGCCATC
TCTAGTCTTGCAGTGGGTGGTATTAACCCATAGAAAGCAAGCAGTTGTGTATCACATAGACAATGGTTATGATGT
AAACAGATTCAGTTGTTTTGTTGTTTCATTTCGTCATATGTTTGTGATAGGGATGTTGGGAGCACAGCTCTATTCTG
CCTGCTCAGACTTAAGTTAGACCTTATCTTTTATATTATGTCATGAAAAAGTCTCCTAAAATTGTGAACTAG
TTCTTGATGAGTGATGTGATCATCAGCAATAAAGATATAATAACTCTGTTTTCTTAGCCTGTATAGAGGAGAGGA
ACTTGCTTGGCTTTAAAATATATTTATTTGCCATTTAAGTATAAATATGGAATCTGTTTCTTATTGGGAAGATAG
AATATATATATTTTCTTTAACTTTTTAAGGTCACCTTTAAATAACCAAATTTGATTTATGGTTTTTAACAAAG
GACTAAAGAGCTGAAACCAACCTAGTTTTGTTTTTGTGATATAAACTTTAAGTGTGAGGGACCATGCCAGCAAC
TACCAAAAATCTCTTAAATCTTCAGGTACAGCTGGCATTTTGGCAGATGCATAGAGACATCTGAGACCCTCAGAA
AGGAAGGATAATCCAAGAATATAGGAAATCTGTGTTCTCTTCTTTCATTTTATCCCTTATATTTCTAAAGACTA
ATTATAAGTAATCTGACATTTTAAATGTAGCTACTCTTATTTATTTTTCTTTCTGAGGTATTTAAATATCTGGAC
TGAGTTTTGCCAAATGTTAAAGGGAGAAGAGTTACTGAAGACTTTGAACACTTGCTTTTTGTGATTGCTTATGTC
ATTAGTGCTCATGACTGTGTTTGATGTCCTTTATTGATACAAAGTGAGCCTGTGCCTTCATTATCTTGCCCAT
TTAATACAAATGGAACCTGGTGTGTTGAAAACTCTGAACTGTGTGGGTTTTGGAGGAATATACCTGAATTTTAT
TCAATAACAGTTTCTGGACAGGAAGAAAAATACAGTTACATATTTATAAAAAA

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FIGURE 1232

MPEGEDFGPGKSWEVINSKPDERPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFFFTILGSYIPG
VILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDFGIGEYINQKKRERSEADKEKSHKDDSELD FSALCPK
ISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFPSLENGMGTDNDEDELS
LGLPTELKRKKEQLDSGHRPSKETQSAAGLTPLNSDQTFHLSNLAGDVITA AVTAAIKDQLEGVQQALSQAAP
IPEEDTDTEEGDDFELLDQSELDQIESELGLTQDQEAQAQNKSSGFLSNLLGGH

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FIGURE 1233

GGCACGAGGGGCGACGCGAGCGCCGCGCTTCGCTTCAGCTGCTAGCTGGCCCAAGGGAGGCGACCGCGGAGGGT
GGCGAGGGGCGGCCAGGACCCGCGAGCCCCGGGGCCGGGCCGGTCCGGACCGCCAGGGAGGGCAGGTCAGTGGGCA
GATCGCGTCCGCGGGATTCAATCTCTGCCCCTCTGATAACAGTCTTTTTCCCTGGCGCTCACTTCGTGCCTGGC
ACCCGGCTGGGCGCCTCAAGACCGTTGTCTCTTCGATCGCTTCTTTGGACTTGGCGACCATTTCAGAGATGCTCTT
CCAGAAGTACCAAAGATTTAATTAAGTAAGTGGGGATCGAAGCCTAGTAACCTCAAATCCGAACTACATTAG
AAAAATTAAAGGGAGAAATTGCACACTTAAAGACATCAGTGGATGAAATCACAAGTGGGAAAGGAAAGCTGACTG
ATAAAGAGAGACACAGACTTTTGGAGAAAATTCGAGTCCTTGAGGCTGAGAAGGAGAAGAATGCTTATCAACTCA
CAGAGAAGGACAAAGAAATACAGCGACTGAGAGACCAACTGAAGGCCAGATATAGTACTACCGCATTGCTTGAAC
AGCTGGAAGAGACAACGAGAGAAGGAGAAAGGAGGGAGCAGGTGTTGAAAGCCTTATCTGAAGAGAAAGACGTAT
TGAAACAACAGTTGTCTGCTGCAACCTCACGAATTGCTGAACTTGAAAGCAAAACCAATACACTCCGTTTATCAC
AGACTGTGGCTCCAACTGCTTCAACTCATCAATAAATAATATTTCATGAAATGGAAATACAGCTGAAAGATGCTC
TGGAGAAAATCAGCAGTGGCTCGTGTATGATCAGCAGCGGGAAGTCTATGTAAAAGGACTTTTAGCAAAGATCT
TTGAGTTGGAAAAGAAAACGGAAAACAGCTGCTCATTCACTCCCACAGCAGACAAAAAGCCTGAATCAGAAGGTT
ATCTTCAAGAAGAGAAGCAGAAATGTTACAACGATCTCTTGGCAAGTGCAAAAAAGATCTTGAGGTTGAACGAC
AAACCATAACTCAGCTGAGTTTTGAACTGAGTGAATTTGGAAGAAAATATGAAGAAACCCAAAAAGAAGTTCACA
ATTTAAATCAGCTGTTGTATTACAAAAGAGGGCAGATGTGCAACATCTGGAAGATGATAGGCATAAAACAGAGA
AGATACAAAACTCAGGGAAGAGAATGATATTGCTAGGGGAAAACCTGAAGAAGAGAAGAAGAGATCCGAAGAGC
TCTTATCTCAGGTCCAGTTTCTTTACACATCTCTGCTAAAGCAGCAAGAAGAACAACAAGGGTAGCTCTGTTGG
AACAACAGATGCAGGCATGTACTTTAGACTTTGAAAATGAAAACCTCGACCGTCAACATGTGCAGCATCAATTGC
TTGTAATTCTTAAAGGAGCTCCGAAAAGCAAGAAATCAAATAACACAGTTGGAATCCTTGAAACAGCTTCATGAGT
TTGCCATCACAGAGCCATTAGTCACTTTCCAAGGAGAGACTGAAAACAGAGAAAAAGTTGCCGCCTCACCAAAAA
GTCCCACTGCTGCACTCAATGAAAGCCTGGTGAATGTCCCAAGTGCAATATACAGTATCCAGCCACTGAGCATC
GCGATCTGCTTGTCCATGTGGAATACTGTTCAAAGTAGCAAAATAAGTATTTGTTTTGATATTAAAAGATTCAAT
ACTGTATTTTCTGTTAGCTTGTGGGCATTTTGAATTATATATTTTACATTTTGCATAAACTGCCTATCTACCTT
TGACACTCCAGCATGCTAGTGAATCATGTATCTTTTAGGCTGCTGTGCATTTCTCTTGGCAGTGATACCTCCCTG
ACATGGTTTCATCATCAGGCTGCAATGACAGAATGTGGTGAGCAGCGTCTACTGAGACTACTAACATTTTGCACCTG
TCAAAATACTTGGTGAGGAAAAGATAGCTCAGGTTATTGCTAATGGGTAAATGCACCAGCAAGCAAAATATTTTA
TGTTTTGGGGGTTTGAAAAATCAAAGATAATTAACCAAGGATCTTAAGTGTGTTTCGCATTTTATCCAAGCACT
TAGAAAACCTACAATCCTAATTTTGTATGTCATTGTTAAGAGGTGGTGATAGATACTATTTTTTTTTTTCATATTG
TATAGCGGTTATTAGAAAAGTTGGGGATTTTCTTGATCTTTATTGCTGCTTACCATTGAACTTAACCCAGCTGT
GTTCCCAACTCTGTTCTGCGCACGAAACAGTATCTGTTTGAGGCATAATCTTAAGTGGCCACACACAATGTTTT
CTCTTATGTTATCTGGCAGTAACTGTAATTGAATTACATTAGCACATTCTGCTTAGCTAAAATTGTTAAATAA
ACTTTAATAAACCCATGTAGCCCTCTCATTGATTGACAGTATTTTAGTTATTTTGGCATTCTTAAAGCTGGGC
AATGTAATGATCAGATCTTTGTTTGTCTGAACAGGTATTTTATACATGCTTTTGTAAACCAAAAACCTTTTAA
TTTCTTCAGGTTTCTAACATGCTTACCCTGGGCTACTGTAAATGAGAAAAGAATAAAATTATTTAATGTTTTA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1234

MSSRSTKDLIKSKWGSKPSNSKSETTLEKLGKGEIAHLKTSVDEITSGKGKLTDKERHRLLEKIRVLEAEKEKNAY
QLTEKDKEIQRLRDQLKARYSTTALLEQLEETTREGERRREQVLKALSEEKDVLKQQLSAATSRIALESKTNTLR
LSQTVAPNCFNSSINNIHEMEIQLKDALEKNQWLVDQQREVYVKGLLAKIFELEKKTETAHSLPQQTKKPES
EGYLQEEKQKCYNDLLASAKKDLEVERQTITQLSFELSEFRKYEETQKEVHNLNQLLYSQRRADVQHLEDDRHK
TEKIQKLREENDIARGKLEEEKRSEELLSQVQFLYTSLLKQEEQTRVALLEQQMQACTLDFENEKLDROHVQH
QLLVILKELRKARNQITQLESCLKLHEFAITEPLVTFQGETENREKVAASPKSPTAALNESLVECPKCNIQYPAT
EHRDLLVHVEYCSK

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FIGURE 1235

GTCTCTTCCTCGCTCCCTCTCTTTCTCTCCTCCCTCTGCCTTCCCAGTGCATAAAGTCTCTGTCTCGCTCCCGGAAC
TTGTTGGCAATGCCTATTTTTTGGCTTTCCCCCGCGTTCTCTAAACTAACTATTTAAAGGTCTGCGGTGCAAAT
GGTTTGACTAAACGTAGGATGGGACTTAAGTTGAACGGCAGATATATTTCACTGATCCTCGCGGTGCAAATAGCG
TATCTGGTGCAGGCCGTGAGAGCAGCGGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGACTGTTTGCTCAAG
CTGGGGCAGCAGCATGGCCAACTACCCGCAGGGCCTGGACGACAAGACGAACATCAAGACCGTGTGCACATACTGG
GAGGATTTCCACAGCTGCACGGTCACAGCCCTTACGGATTGCCAGGAAGGGGCGAAAGATATGTGGGATAAACTG
AGAAAAGAATCCAAAACCTCAACATCCAAGGCAGCTTATTCGAACTCTGCGGCAGCGGCAACGGGGCGGCGGGG
TCCCTGCTCCCGCGCTTCCCGGTGCTCCTGGTGTCTCTCTCGGCAGCTTTAGCGACCTGGCTTTCTTCTGAGCG
TGGGGCCAGCTCCCCCGCGCGCCACCCACACTCACTCCATGCTCCCGGAAATCGAGAGGAAGATCCATTAGTT
CTTTGGGGACGTTGTGATTCTCTGTGATGCTGAAAACACTCATATAGGATTGTGGGAAATCCTGATTCTCTTTTT
TATTTTCGTTTGATTCTTGTGTTTTATTGCCAAATGTTACCAATCAGTGAGCAAGCAAGCACAGCCAAAATCGG
ACCTCAGCTTTAGTCCGTCTTCACACACAAATAAGAAAACGGCAAACCCACCCCATTTTTTAATTTTATTATTAT
TAATTTTTTTTTGTTGGCAAAAAGAAATCTCAGGAACGGCCCTGGGGCACCTACTATATTAATCATGCTAGTAACATG
AAAAATGATGGGCTCCTCCTAATAGGAAGGCGAGGAGAGGAGAAGGCCAGGGGAATGAATTCAAGAGAGATGTCC
ACGGCCGAAACATACGGTGAATAATTACGCTCACGTCGTTCTTCCACAGTATCTTGTTTTGATCATTTCCTG
CACATTTCTCCTCAAGAAAAGCGAAAGGACAGACTGTTGGCTTTGTGTTTGGAGGATAGGAGGGAGAGAGGGAAG
GGGCTGAGGAAATCTCTGGGGTAAGAGTAAAGGCTTCAGAAGACATGCTGCTATGGTCACTGAGGGGTTAGCTT
TATCTGCTGTTGTTGATGCATCCGTCCAAGTTCACTGCCTTTATTTTCCCTCCTCCCTCTTGTTTTAGCTGTTAC
ACACACAGTAATACCTGAATATCCAACGGTATAGATCACAAGGGGGGATGTTAAATGTTAATCTAAAAATATAGC
TAAAAAAGATTTTGACATAAAAGAGCCTTGATTTTAAAAAAGAGAGAGAGATGTAATTTAAAAAGTTTAT
TATAAATTAAATTCAGCAAAAAAGATTTGCTACAAAGTATAGAGAAGTATAAAATAAAAGTTATTGTTTGAAAA
AAAAAAAAAAAAAA

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FIGURE 1236

MGLKLNGRYISLILAVQIAYLVQAVRAAGKCDVFKGFSDCLLKLGDSMANYPQGLDDKTNIKTIVCTYWEDFHSC
TVTALTDCQEGAKDMWDKLRKESKNLNIQGSLELCGSGNGAAGSLLPAFPVLLVSLSAALATWLSF

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FIGURE 1237

GTCTCAGCGGCTGCCAACAGATCATGAGCCATCAGCTCCTCTGGGGCCAGCTATAGGACAACAGAACTCTCACCA
AAGGACCAGACACAGTGAGCACCATGGGACAGTGTCGGTCAGCCAACGCAGAGGATGCTCAGGAATTCAGTGATG
TGGAGAGGGCCATTGAGACCCCTCATCAAGAACTTTACCAGTACTCCGTGGAGGGTGGGAAGGAGACGCTGACCC
CTTCTGAGCTACGGGACCTGGTCACCCAGCAGCTGCCCCATCTCATGCCGAGCAACTGTGGCCTGGAAGAGAAAA
TTGCCAACCTGGGCAGCTGCAATGACTCTAAACTGGAGTTTCAGGAGTTTCTGGGAGCTGATTGGAGAAGCGGCCA
AGAGTGTGAAGCTGGAGAGGCCTGTCCGGGGGCACTGAGAACTCCCTCTGGAATTCCTGGGGGGTGTGGGGAGA
GACTGTGGGCCTGGAGATAAACTTGTCTCCTCTACCACCACCCTGTACCCTAGCCTGCACCTGTCCTCATCTCT
GCAAAGTTCAGCTTCCTTCCCCAGGTCTCTGTGCACTCTGTCTTGGATGCTCTGGGGAGCTCATGGGTGGAGGAG
TCTCCACCAGAGGGAGGCTCAGGGGACTGGTTGGGCCAGGGATGAATATTTGAGGGATAAAAAATTGTGTAAGAGC
CAAAGAATTGGTAGTAGGGGGAGAACAGAGAGGAGCTGGGCTATGGGAAATGATTTGAATAATGGAGCTGGGAAT
ATGGCTGGATATCTGGTACTAAAAAAGGGTCTTTAAGAACCTACTTCCTAATCTCTTCCCCAATCCAAACCATAG
CTGTCTGTCCAGTGCTCTCTTCCTGCCTCCAGCTCTGCCCCAGGCTCCTCCTAGACTCTGTCCCTGGGCTAGGGC
AGGGGAGGAGGGAGAGCAGGGTTGGGGGAGAGGCTGAGGAGAGTGTGACATGTGGGGAGAGGACCAGCTGGGTGC
TTGGGCATTGACAGAATGATGGTTGTTTTGTATCATTTGATTAATAAAAAAAAAAATGAAAAAAGTGAAAAAAAAA
AAAAAA

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FIGURE 1238

MGQCRSANAEDAQEFSDVERAIETLIKNFHQYSVEGGKETLTPSELRLVTQQLPHLMPSNCGLEEKIANLGSCN
DSKLEFRSFWELIGEAAKSVKLERPVRGH

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FIGURE 1239

ATTCCGGAGCGTTTGC GGCTTCGCTTCATGGCCGCTCTCCCGCCCCCTCCTGGGATCTGTGGGGAGCTGGGGAGCC
CGCAGCGGCCCCGGAGCCGGAGCTGGCGAGCCGAGCGGAGACCTGTGCGCCGCGCCTCTGAGGCGCAGCATGTGAA
GCGGAGACGGCATCCAGTGGGGGGCGAGCCTCTCAGCCGGCCGGGATGGCTACCACGGCCGAGCTCTTCGAGGAG
CCTTTTGTGGCAGATGAATATATTGAACGTCTTGTATGGAGAACCCAGGAGGAGGCTCTAGAGGTGGACCTGAA
GCTTTTGATCCTAAAAGATTATTAGAAGAATTTGTAAATCATATTCAGGAACCTCAGATAATGGATGAAAGGATT
CAGAGGAAAGTAGAGAACTAGAGCAACAATGTCAGAAAGAAGCCAAGGAATTTGCCAAGAAGGTACAAGAGCTG
CAGAAAAGCAATCAGGTTGCCTTCCAACATTTCCAAGAACTAGATGAGCACATTAGCTATGTAGCAACTAAAGTC
TGTCACCTTGGAGACCAGTTAGAGGGGGTAAACACACCCAGACAACGGGCAGTGGAGGCTCAGAAATTGATGAAA
TACTTTAATGAGTTTCTAGATGGAGAATTGAAATCTGATGTTTTTACAAATCTGAAAAGATAAAGGAAGCAGCA
GACATCATTGAGAAGTTGCACCTAATTGCCCAAGAGTTACCTTTTGATAGATTTTCAGAAGTTAAATCCAAAATT
GCAAGTAAATACCATGATTTAGAATGCCAGCTGATTCAGGAGTTTACCAGTGCTCAAAGAAGAGGTGAAATCTCC
AGAATGAGAGAAGTAGCAGCAGTTTTACTTCATTTTAAGGGTTATTTCCCATTTGTGTTGATGTTTATATAAAGCAG
TGCCAGGAGGGTGCTTATTTGAGAAATGATATATTTGAAGACGCTGGAATACTCTGTCAAAGAGTGAACAAACAA
GTTGGAGATATCTTCAGTAATCCAGAAACAGTCCTGGCTAAACTTATTCAAATGTATTTGAAATCAAACCTACAG
AGTTTTGTGAAAGAGCAGTTAGAAGAATGTAGGAAGTCCGATGCAGAGCAATATCTCAAAAATCTCTATGATCTG
TATACAAGAACCACCAATCTTTCCAGCAAGCTGATGGAGTTTAATTTAGGTACTGATAAACAGACTTTCTTGTCT
AAGCTTATCAAATCCATTTTTCATTTCTTATTTGGAGAACTATATTGAGGTGGAGACTGGATATTTGAAAAGCAGA
AGTGCTATGATCCTACAGCGCTATTATGATTCGAAAAACCATCAAAAGAGATCCATTGGCACAGGAGGTATTCAA
GATTTGAAGGAAAGAATTAGACAGCGTACCAACTTACCCTTGGGCCAAGTATCGATACTCATGGGGAGACTTTT
CTATCCCAAGAAGTGGTGGTTAATCTTTTACAAGAAAACCAACAAGCCTTTGAAAGATGTCATAGGCTCTCTGAT
CCTTCTGACTTACCAAGGAATGCCTTCAGAATTTTTTACCATTCTTGTGGAATTTTTATGTATTGAGCATATTGAT
TATGCTTTGGAAACAGGACTTGCTGGAATTCCCTCTTCAGATTCTAGGAATGCAAATCTTTATTTTTTGGACGTT
GTGCAACAGGCCAATACTATTTTTTCATCTTTTTTGACAAAACAGTTTAATGATCACCTTATGCCACTAATAAGCTCT
TCTCCTAAGTTATCTGAATGCCTTCAGAAGAAAAAGAAATAATTGAACAAATGGAGATGAAATTGGATACTGGC
ATTGATAGGACATTAAATTGTATGATTGGACAGATGAAGCATATTTTGGCTGCAGAACAGAAGAAAACAGATTTT
AAGCCAGAAGATGAAAACAATGTTTTGATTCAATATACTAATGCCTGTGTAAAGTCTGTGCTTACGTAAGAAAA
CAAGTGGAGAAGATTAAAAATTCCATGGATGGGAAGAATGTGGATACAGTTTTGATGGAACCTGGAGTACGTTTT
CATCGACTTATCTATGAGCATCTTCAACAATATTCTACAGTTGTATGGGTGGCATGTTGGCCATTTGTGATGTA
GCCGAATATAGGAAGTGTGCCAAAGACTTCAAGATTCCAATGGTATTACATCTTTTTGATACTCTGCATGCTCTT
TGCAATCTTCTGGTAGTTGCCCCAGATAATTTAAAGCAAGTCTGCTCAGGAGAACAACCTTGCTAATCTGGACAAG
AATATACTTCACTCCTTCGTACAACCTTCGTGCTGATTATAGATCTGCCCGCCTTGCTCGACACTTCAGCTGAGAT
TGAATTTACAAAGGAATT

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FIGURE 1240

MATTAELEEFVVADEYIERLVWRTPGGGSRGGPEAFDPKRLLEEFVNHIQELQIMDERIQRKVEKLEQQCQKEA
KEFAKKVQELQKSNQVAFQHFQELDEHISYVATKVCHLGDQLEGVNTPRQRAVEAQKLMKYFNEFLDGELEKSDVF
TNSEKIKEAADIIQKLHLIAQELPFDRFSEVKSIAISKYHDLECQLIQEFTSAQRRGEISRMREVA AVLHFKGY
SHCVDVYIKQCQEGAYLRNDIFEDAGILCQRVNKQVGDIFSNPETVLAKLIQNVFEIKLQSFVKEQLEECRKSDA
EQYLKNLYDLYTRTTNLSSKLMEFNLGTDKQTFLSKLIKSI FSYLENYIEVETGYLKSRSAMILQRYYDSKNHQ
KRSIGTGGIQDLKERIRQRTNLPLGPSIDTHGETFLSQEVVNLLQETKQAFERCHRLSDPSDLPRNAFRIFTIL
VEFLCIEHIDYALETGLAGIPSSDSRNANLYFLDVVQQANTIFHLFDKQFNDHLMPLISSPKLSECLQKKKEII
EQMEMKLDTGIDRTLNCMIGQMKHILAAEQKKTDFKPEDENNVLIQYTNACVKVCAYVRKQVEKIKNSMDGKNVD
TVLMELGVRFRHRLIYEHLLQQYSYSCMGGMLAICDVAEYRKCAKDFKIPMVLHLFDTLHALCNLLVAPDNLKQVC
SGEQLANLDKNILHSFVQLRADYRSARLARHFS

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FIGURE 1241

GGATGAAAACATCCCCAGCATGGAGATGTGTGACCAGAGACACAATATCACCATGTGCCCCGCTTTGCGACAAGAC
CTGCAGCTACTGGAAGATGAGCTCAGCCTGCGCCACGGCCCGCGCCAGCCACCTCTTCGACAACCCCGCCACGGT
CTTCTTCTCTGTCTTCATGGCCCTCTGGGCTGCCACCTTCATGGAGCACTGGAAGCGGAAACAGATGCGACTCAA
CTACCGCTGGGACCTCACGGGCTTTGAAGAGGAAGAGGAGGCTGTCAAGGATCATCCTAGAGCTGAATACGAAGC
CAGAGTCTTGGAGAAGTCTCTGAAGAAAGAGTCCAGAAACAAAGAGACTGACAAAGTGAAGCTGACATGGAGAGA
TCGGTTCCCAGCCTACCTCACTAACTTGGTCTCCATCATCTTCATGATTGCAGTGACGTTTGCCATCGTCTCGG
CGTCATCATCTACAGGATCTCCATGGCCGCCGCTTGGCCATGAACCTCTCCCCCTCCGTGCGGTCCAACATCCG
GGTCACAGTCACAGCCACCGCGTTCATCATCAACCTAGTGGTTCATCATCTCTGACGAGGTGTATGGCTGCAT
AGCCCGATGGCTCACCAAGATCGAGGTCCCAAAGACGGAGAAAAGCTTTGAGGAGAGGCTGATCTTCAAGGCTTT
CCTGCTGAAGTTTGTGAATTCCTACACCCCATCTTTTACGTGGCGTTCTTCAAAGGCCGGTTTGTGGACGCC
GGGCGACTACGTGTACATTTTCCGTTCTTCCGAATGGAAGAGTGTGCGCCAGGGGGCTGCCTGATGGAGCTATG
CATCCAGCTCAGCATCATCATGCTGGGGAAACAGCTGATCCAGAACAACCTGTTGAGATCGGCATCCCGAAGAT
GAAGAAGCTCATCCGCTACCTGAAGCTGAAGCAGCAGAGCCCCCTGACCACGAGGAGTGTGTGAAGAGGAAACA
GCGGTACGAGGTGGATTACAACCTGGAGCCCTTCGCGGGCCTCACCCAGAGTACATGGAAATGATCATCCAGTT
TGGCTTCGTACCCCTGTTTGTGCGCTCCTTCCCCCTGGCCCCACTGTTTGCCTGCTGAACAACATCATCGAGAT
CCGCTGGACGCCAAAAAGTTTGTCACTGAGCTCCGAAGGCCGGTAGCTGTGAGAGCCAAAGACATCGGAATCTG
GTACAATATCTCAGAGGCATTGGGAAGCTTGTGTCTCATCATCAATGCCTTCGTGATCTCCTTCACGTCTGACTT
CATCCCGCGCTGGTGTACCTCTACATGTACAGTAAGAACGGGACCATGCACGGCTTCGTCAACCACACCCTCTC
CTCCTTCAACGTCACTGACTTCCAGAACGGCACGGCCCCCAATGACCCCTGGACCTGGGCTACGAGGTGCAGAT
CTGCAGGTATAAAGACTACCGAGAGCCCGCTGGTTCGGAACCAAGTACGACATCTCCAAGGACTTCTGGGCCGT
CCTGGCAGCCCGGCTGGCGTTTGTATCGTCTTCCAGAACCTGGTTCATGTTTCATGAGCGACTTTGTGGACTGGGT
CATCCCGGACATCCCCAAGGACATCAGCCAGCAGATCCACAAGGAGAAGGTGCTCATGGTGGAGCTGTTTCATGCG
GGAGGAGCAAGACAAGCAGCAGCTGCTGGAAACCTGGATGGAGAAGGAGCGGCAGAAGGACGAGCCGCCGTGCAA
CCACCACAACACCAAAGCCTGCCCAGACAGCCTCGGCAGCCCAGCCCCAGCCATGCCTACCACGGGGGCGTCTCT
GTAGCTATGCCAGCGGGGCTGGGCAGGCCAGCCGGGCATCCTGACCGATGGGCACCCTCTCCCAGGGCAGGCGGC
TTCCCGCTCCCACCAGGGCCCGGTGGGTCTGGGTTTTCTGCAAACATGGAGGACCCTTTCTGATAGGACATTT
TCCTTTCTTCTTTCTGTTTTCTTTCCCTTGTTTTTGACAAAGCCATTATGCAGGGAATATTTTTTAATCTGTAG
TATTCAGATGAATCAAAATGATGGCTGGTAATACGGCAATAAGGTAGCAAAGGCAGGTGCTTTGCAGAAAGAAT
GCTTGGAACTTGAGTCTCCCTAGAGGTGAAAAGTGAGCAGAGGCCCTAGAAACCTCCTCTGAATCCTCCTAA
TTCCTTAAGATAGATGCAAAATGGTAAGCCGAGGCATCGCGCAAAAGCTGGTGCATGCTTCAGGGAAAATGGAA
AACCACGCAAGAATAATGATTGATTCCGGTTCCAAAAGGTGTCACCTACCTGTTTCAGAAAAGTTAGACTTTCC
ATCGCCTTTTCTTCCATCAGTTGAGTGGCTGAGAGAGAAGTGCTCATCCCTGAGCCACACAGGGGGCGTGGGA
GCATCCCAGTTATCCCTGGAAAGCTAGAAGGGGACAGAGGTGTCCCTGATTAAGCAGGAAACAGCACCTTGGCG
TCCCCAGCAGGCTCCCCACTGTGAGCCACACACCTGCCCCATCACACCAAGCCGACCTCAGAGTTGTTTCATCTT
CCTTATGGGACAAAACCGGTTGACCAGAAAATGGGCAGAGAGAGATGACCTCGGAAGCATTTCACAGATGGTGT
CAGGGTTTCAAGAAGTCTTAGGGCTTCCAGGGGTCCCCTGGAAGCTTTAGAATATTTATGGGTTTTTTTTTCAA
TATCAATTATATGGTAGATTGAGGATTTTTTTTCTGTAGCTCAAAGGTGGAGGGAGTTTATTAGTTAACCAAATA
TCGTTGAGAGGAATTTAAATACTGTTACTACCAAAGATTTTTATTAATAAAGGCTTATATTTTGGTAACACTTC
TCTATATTTTACTCACAGGAATGTCACTGTTGGACAATTTTTTAAAGTGTATAAAACCAAGTCTCATAAATG
ATATGAGTGATCTAAATTTGCAGCAATGATACTAAACAACCTCTCTGAAATTTCTCAAGCACCAGAGAAACATCA
TTTTAGCAAAGGCCAGGAGGAAAAATAGAAATAAATTTGTCTTGAAGATCTC

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FIGURE 1242

MEMCDQRHNITMCPLCDKTC SYWKMS SACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLT
GFEEEEEEAVKDHPRAEYEARVLEKSLKKESRNKETDKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIYRI
SMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIILLDEVYGC IARWLT KIEVPKTEKSFEERLIFKAFLLKFVN
SYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRY
LKLKQQSPPDHEECVKRKQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPL FALLNNIIEIRLDAKK
FVTELRRPVAVRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFEVNHTLSSFNVS
FQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDIPK
DISQQIHKEKVL MVELFMREEQDKQQLLETWMEKERQKDEPPCNHHNTKACPD SLGSPAPSHAYHGGVL

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FIGURE 1243

ATATAAAGGCGCCGCCGCTCCTTGCCCCCAGGACTCGGCCCCATGGGGACGCCGCCGGCCGCCGCTGGCGCATGGC
GGGTAGGAGCTGTGGCGCGGGGCCCTTCCAGGAGTCTGAGCTATGAGTGGCCCCCTGTGGAGAGAAGCCTGTCCTGG
AAGCCAGCCCCACCATGAGTCTGTGGGAATTTGAGGACAGCCACAGCCGTCAGGGCACCCCAAGGCCGGGTCAAG
AGCTGGCCGCTGAGGAGGCCTCGGCCCTGGAAGTGCAGATGAAGGTGGACTTCTTCCGGAAGCTGGGCTATTTCAT
CCACGGAGATCCACAGCGTCTGTCAGAAGCTGGGCGTCCAGGCAGACACCAACACGGTGCTGGGTGAGCTGGTGA
AACACGGGACAGCCACCGAGCGGGAGCGCCAGACCTCACCGGACCCCTGCCCTCAGCTCCCTCTAGTCCCGCGGG
GTGGTGGCACCCCTAAGGCTCCCAACCTGGAGCCTCCACTCCCAGAAGAGGAAAAGGAGGGCAGCGACCTGAGAC
CAGTGGTCATCGATGGGAGCAACGTGGCCATGAGCCATGGGAACAAGGAGGTCTTCTCCTGCCGGGGCATCCTGC
TGGCAGTGAAGTGGTTTCTGGAGCGGGGCCACACAGACATCACAGTGTGTTGTGCCATCCTGGAGGAAGGAGCAGC
CTCGGCCCGACGTGCCCATCACAGACCAGCACATCCTGCGGGAACTGGAGAAGAAGAAGATCCTGGTGTTCACAC
CATCACGACGCGTGGGTGGCAAGCGGGTGGTGTGCTATGACGACAGATTCAATTGTGAAGCTGGCCTACGAGTCTG
ACGGGATCGTGGTTTCCAACGACACATACCGTGACCTCCAAGGCGAGCGGCAGGAGTGGAAGCGCTTCATCGAGG
AGCGGCTGCTCATGTACTCCTTCGTCAATGACAAGTTTATGCCCCCTGATGACCCACTGGGCCGGCACGGGCCCA
GCCTGGACAACCTTCTGCGTAAGAAGCCACTCACTTTGGAGCACAGGAAGCAGCCGTGTCCCTATGGAAGGAAAT
GCACCTATGGGATCAAGTGCCGATTCTTCCACCCAGAGCGGGCAAGCTGCCCCCAGCGCTCTGTGGCAGATGAGC
TCCGTGCCAATGCTCTCCTCTCACCCCCAGAGCCCCAAGCAAGGACAAAAATGGCCGGCGGCCTTCACCTTCAT
CCCAGTCCAGCTCTCTGCTAACAGAGAGTGAGCAGTGCAGCCTGGATGGGAAGAAGCTGGGGGGCCAGGCATCCC
CAGGGTCCCGCCAAGAGGGTCTAACACAGACCTATGCCCCATCAGGCAGGAGCCTCGCACCTAGCGGGGGCAGTG
GCAGCAGCTTTGGGGCCACAGACTGGCTCCACAGACGCTGGACTCACTCCCGTACGTCTCCAGGATTGCCTGG
ACTCGGGCATTGGCTCCCTGGAGAGCCAGATGTGCGAACTTTGGGGGGTTCGAGGAGGAGGCCCTGGTGAGCCGG
GCCCCCCCCGAGCCCCCTTACACGGGCTACAGTCCCTATGGATCTGAGCTCCCAGCCACCGCAGCCTTCTCTGCCT
TTGGCCGGGCCATGGGTGCTGGCCACTTCAGTGTCCCTGCCGACTACCCACCCGCGCCCCCTGCCTTTCCACCTC
GAGAGTACTGGTCTGAACCATAACCACTGCCCCCACCACATCAGTCTTTCAGGAGCCCCCAGTGCGAGGCCAG
GGGCTGGCAGGAGCCCGTGGGGCAGGGCAGACAGCCTGGCCAAGGAGCAGGCCAGCGTGATACTAAGCTGTGTG
GTGTGTTTTCCCCCGCACCTGGTGGAGGCTGTGATGGGGCGCTTCCACAGCTCCTGGACCCCCAGCAGCTGGCTG
CCGAGATCCTCTCCTACAAGTCCCAGCACCCCAAGTGAGTAAGCTGCCTGTGGCTGGCAAGGGCAGCACCCCCAGC
CTCCAAGGGCCGTCAGGCTGGGCTTTGGGCCATTGAGCAGCCCATTCAGCCCTGAGGCCCCACCCAGAGGCTG
GACAGAGGGAGGATTCAAGTCGGGAAGGAAACCCACAAACCAAGATACTGTAGGATTGGTTCTGGCCCATGCAG
CACCTCTAGCTGTCTGCCTCAGTGGGTCAGAAGCGATCACCTGTTGATACACATTGTATCTCTGTAGTTTAAGG
AGACGCTGCCGGTAACGGCGTCGGTCCGTGGCTGAGGCCCAAACCGTCTTTTCTCTCAGAGGGTGGGGAGGGAGG
TGGGGGCAGCAGAGGCCTGGGCTGGGTGCCCTGTGCACGCCACCCCACTTCCGCCCTACCCCTGGGACGTTGGCC
TTGGCTGGCTAGTTGGGCACCGTGTGCTGCCCTCCAAGGGCCTCCTCTACGCCAATGAGGCCTCATCTGTGCTC
TCGCTGGGCACGTGGCTTCATGTGAGTAAGCAAGATGCTTCTTAATAACCCACCTTCTGCCCCACTCTATTTCCT
ATCTCGCCCTTCCCCATGGGTGGGGGAACCTGTGTTTGTGTTGTGTCACATGTAAATTTTAAATATTTTAAGCAG
AAAGTCCTTACCTCCTGTAAACACATCAATAAAGTACAATCATTGTGAGCCCTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1244

MSGPCGEKPVLEASPTMSLWEFEDSHSRQGTTPRGQELAAEEASALELQMKVDFFRKLGYSSTEIHSVLQKLGVO
ADTNTVLGELVKHGTATERERQTS PDPCPQLPLVPRGGGTPKAPNLEPPLPEEEKEGSDLRPVVIDGSNVAMSHG
NKEVFSCRGILLAVNWFLE RGH TDITVFVPSWRKEQPRPDVPITDQHILRELEKKKILVFTPSRRVGGKRVCYD
DRFIVKLAYESDGIVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLTLE
HRKQPCPYGRKCTYGIKCRFFHPERPSCPQRSVADEL RANALLSPPRAPSKDKNGRRPSPSSQSSSLLTESEQCS
LDGKKLGAQASPGSRQEGLTQTYAPSGRSLAPSGGSGSSFGPTDWLPQTLD SLPYVSQDCLDSGIGSLESQMSEL
WGVRRGGPGEPGPPRAPYTGYS PYGSELPATAAFSAFGRAMGAGHFSVPADYPPAPPAFPFPREYWSEPYPLPPT
SVLQEPPVQSPGAGRSPWGRADSLAKEQASVYTKLCGVFPFPHLVEAVMGRFPQLLDFQQLAAEILSYKSQHPSE

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FIGURE 1245

CTTACTGCTTTGTGAGGTTGTGAGTGGCCACCACTGAAGGTCTTTGAGAAGAGGCCAGACGCTGCTGTAGCCAGG
CCTGTCTTAAGAGGACTTGTGCTTCCAGGGACCCAGGCAGGATGATGGCGCAGCTCTTCCTACTCCAAGCCAACG
CTGTCCCTCCCTTTCCCATGAAATCAAGGTCAAGAGGCCAAATAAGACTCCCTGCTCCACTCTACCCCCAGAGA
GAAATGATTCTCGCTCCTTTTCAGATCCCCCAGGATCTGAGGGAGAAAGGATGGGAGGAGGGGCAGCAGCATTTCG
CTGGAAGGCAGCAGATGCTTTTCCAGCCCCGGTTCAGCTGGAAGGCTTGGAGGCCGGCCAGACCACTCTGGCGT
CTCCTGAAGTGGGTCCCTGGAGACCGAAGAGGCTCAGTGGAGTCTGTCTGTTGTGTCAGCACTGCTGCCTGATCCCT
GCAAGACAAATGGCACTTTTCCTTCTTCAGAAGCATCATCTGCCTTCATTATTAGCAGTAATATTATTCCAGTTA
TTATTCTTACCGGTGCCAGTTTTGCACATCTTTTTGTTGCTCTATTTGTGTCTCATTACTTCTCAAATTGCCCC
TGGGGGCAGGAATGAGGATGCAGAGAGATGCACGTTAATTACTGTGCAATTTTTCTGTGGAGAAAACCTGAGGCCA
GGGCTGAACGCTCACAGCTAAGGAGCTGTGATTACAGACCCAGTTCTGTGAGCTCTAGAGGCACCCCTGCATCATGC
CCACCAGGGTGATCCCCCTGGGATGGACCATCTCGGGATATGAGGCCTCGGAGGCTGGGGTTGAGATTGTTGCTCCT
GAAGAGCTTATAGCCAGATTGCCACATTCAAGTGTAAGTCCAGGAAAGGGGCAGGCGGCAGTGCACAGGGATTTA
TCAGTTCCAGAACCTCACAGTGATAAGAGGCTTTAGAGAGCATCTAATCGAGACCTTTAATTTTTTCGGGGAGAGC
AGCTGAGGCCGTGTGGAAAATTAGTGGAGAGCTGACAAGTGTCTGGGCTCCTGGCCCAGGGGTCCGTGGTCCAGC
ACGTTGTGCGTTCAAGTGGGAAGCAAAGGGCTTGGCCGGGATTACCTGCCCCAGCCCCGAGGTGGGTGTGCTCCC
TGCAGCTGCCATCGGCCCGCTTTGCTTCGTCTGGCAGATGCCAGTGATTGTCCCCGAGCAAGTGCCAGGGTTG
GGCTGAGCTGCTATGACAGGGAGGCCAGGGAGTTCTGTCTAGGGAGCCAAAGGGAACAGCCAGATCCTGAATGT
TCTATGTTACCTGCCCCAGCCCCACCCACCTGGCCCACTCCACAGGCCCTGACCATGGTCACTCACGGAGAG
GGATGGAGGAGAAGGTGGTTGAACTGAGTACTGAGAACCAGAGGACAGAGCCACAGCTTCCAAGCAGGAAAAG
GGACCTCTCTGAAAAATCTGGATAACCAGAATTATCACAGCACCTTCTCATTCCCAGCGCTCCTTCTGAGCTCA
GACCTTGAGCATTACTGAGGTTTCTTTTTGAGGAAGAGGGAAAGTGACAAAGGACAAAAACAATGCAAACTTTTCAT
GACTGAAGACGATCAAAGACTCCCTGGAGCGAGAAAACAGTTACTGCCAGAAGCAGAATGGAAGAGCCAAAAAGT
ACACAAAATGGACGCCATAAAATCTGAAATAAAAGTGTATGATGTGTTCTGAGTCACTGTAGAAGTCATGCATTI
ATTATCAAGATAGAAAAGAGCAGAGAATGACGTGGACATTGGTCTCTCGGAGAGGCTGCATAGGTGGTGCAGTCCC
CGGGGATTCTGGATGCTGGTCTTTTGACCGTGGCGGCAGCCTCGCGCCTGCCCGGATGGCTCCATCCAGACATTT
GGCAAGGCTGTCACTGCTCTTGGGTCCCTTTTTCAAGCTGATTTCTGCCTCCCCAAGAGGAGTTTGAGCCCC
ATTCTGCCTTGGAATAAAATCTGACAGATGTGCACAGCATATTTGCAGGGAATTTGCAGGCCCTCGATTATTGGG
GGAATCAGAGCCCATTCACACCGAGCCCCATCCACGTGGCTGAGCAACACCCCTGTGTCCCTGTATCTGTCTC
ACTGGCTGTCTTTCTGCCAGTTTCTTAAAGAACCACACCATTACTGCGTTTGCCGTTTGAAGCGTTGTCCCAACA
ATGCAGATGGTTCTGACAAGGGCTCTATATGCTGGCAGAAGGGAGCTTCCAACCTTTTAACCTGAGGAAAATGAA
TCTCTGAGAGGCTTGAGAGTGTGCCAGGTGGAGCTTTTCAGGAGACAGGGGTCTTGAGCCAGGACAACCTAACT
ATCGAGTTTTCACTAGGAGACTTAGTGGTGGCTTTTCATGAGGCCAGTCGTTCTCAAGGAAGGGCTGGGGGCCATC
AGCAATGTCTGGAGACATTTTGATTCTCACAGCTTGGTGGGACTGCTATTGGTATCTCATGGGTGGAGGCCAG
GGATGCCACCGAACATCCTACAATGCACAGGGCAGCCCCCACAATAAGAATTATCCAGCCCCAAAATGCCAAT
AGTGCCGAGGTCAGGGGACCCTGTGCTGGCCATCCTATCTCTGATTCTGAACTATGCATGCTTTCCACTTTTCC
CCATTTGTGAGTCATTGAGTAAATTAAAGCTCTTCTGAGCAGCAGCAGTGATCATGGTCACTGCCCTGAGTTCAA
ATAATGCGAGCTGAGGACAGTGATCTGCAACTCCCAGCATGTATGTGGTCTCTTAGAAATCCATGTGACTGTTT
CCACCATCTTGGGCATTTGTGGGGACCCCCAGACTGGAGGGAGAAAGCCCTACAAAGTGATGGGAGTGTGGGGC
TGAACTTTTCCCTACCCTTAACCTTGTGCTCTCTGGGACCTCCAGGGACCTGGCCCCCTACCAATGCATATGAAGA
GTATGCTTGGGGAAGAGCTTAGGAATGGGGTGGGCATGGGACTGCTGGGTAGCAGCCTTTGAGCAAATCTGCATC
TTCTCTTATTTCTGACCTTTTCCACGTGCCAGTCTATTTCTGCCAGTTGAAGGCATACTAATATTCTTTATA
CTATTTAATCTTTTGCAGAAACCTTACTATTATAACTTGCTACTCTCCAGATACCAATTCTTCATGCCGAGAGCA
TCGGAAATGTTTTGTGCTTACTGATGTTTTTCATGATCAACTTGTAATGTAAGCAGTTGACTTCATAAAAGGT
ATTTTAACTATTCTTGGAGTCTTTGCTACCCAAGCACCTGGTTTTACCATGCGATCACTGACTTCTCTACAGTG
AAGACTCTTTCTTAATATAGGATTCGCTGTGCTCTTTTGATTAAAAATATCTAACCTTAAAAGACGTAAAAATG
TATCTGTGAAATCTCACTTTGTTAGCGTTGCTGCTGTTGTCAATTTCTATTATGATAACTGAAAAGAGAAAAGAA
GAAAACATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MMAQLFLLQANAVLPLSHEIKVKRQIRLPAPLYPPERNDSSRFQIPQDLREKGWEEGQQHFAGKAADAFPAPVQL
EGLEAGQTTLASPEVGPWRPKRLSGVCLLSALLPDPCKTNGTFLLQKHHLPSSLAVILFPVIIILTGASFAHLFVA
LFVSHLLLKLPLGAGMRMQRDAR

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FIGURE 1247

GACTTTTCCACACACTGGATTGTGAGGCTCTTCTTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCT
TTATGTCTCTTAACATTACACCTACTTTTTTAAAAACAAATATTACTATTTTTATTATTGTTTGTCCTTTAT
AAATTTTCTTAAAGATTAAGAAAATTTAAGACCCCATTTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTT
TAAATATGTCTTGTATAGTTCATATTCATGGCTGAAACTTGACCACACTATTGCTGATTGTATGGTTTTACCTG
GACACCGTGTAGAATGCTTGATTACTTGTACTCTTCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTC
AAGCCATCAGGATTTGCTATTTAAGTGGCTTGACAACCTGGGCCACCAAAGAACTTGAACCTCACCTTTTAGGATT
TGAGCTGTTCTGGAACACATTGCTGCACCTTTGGAAAGTCAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAA
TTTGCCAGCTTTGCTTTAAAAGATGTCTTGTTTTTTATATACACATTAACAATAGGTCCAATCTGCTCTCAAGG
CCTTGGTCCTGGTGGGATTCCTTCACCAATTACTTTAATTAAAAATGGCTGCAACTGTAAGAACCCTTGTCTGAT
ATATTTGCAACTATGCTCCCATTTACAAATGTACCTTCTAATGCTCAGTTGCCAGGTCCAATGCAAAGGTGGCG
TGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTAGTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTAC
TAATTTATTAATAAACATTAGGTGTTTGTAAAAA

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FIGURE 1248

MQFNFELSFKYVLYSSYSWLKLDHTIADCMVFTWTPCRMLDYLYSSYANMLWAGEMKSSSHQDLLFKWLDNWATK
ELELHLLGFELFWNTLLHFGKSKSSASGALSIENTLPSFALKDVLFFIYT

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FIGURE 1249

CTGGTCTCCCGCGTCCATCGGTCCATTCCCTGCGTCGTTCTGTCCTTCCGAACGCACACTTCAGGAGCAGCCGCGA
GGGTGGCATGGCAGCGAGCACAGACATGGCTGGGCTGGAGGAGAGCTTCCGCAAGTTTGCCATCCATGGTGACCC
CAAGGCCAGTGGGCAAGAGATGAATGGCAAGAACTGGGCCAAGCTGTGCAAGGACTGCAAGGTGGCTGACGGAAA
GTCCGTGACAGGGACCGATGTGGACATCGTCTTCTCCAAAGTCAAGGGGAAGTCTGCTCGGGTCATCAACTATGA
GGAGTTCAAGAAGGCCCTGGAAGAGCTGGCGACCAAGAGATTCCAGGGCAAGAGCAAGGAGGAGGCCTTCGATGC
CATCTGCCAGCTGGTGGCAGGCAAAGAGCCAGCCAATGTGGGCGTCACTAAAGCAAAAACAGGGGGTGCTGTAGA
CCGGCTGACGGACACCAGCAGATACACGGGCTCCCACAAGGAGCGCTTCGATGAGAGCGGCAAGGGCAAGGGCAT
TGCGGGACGGCAGGACATCCTGGACGACAGTGGCTACGTGAGCGCCTACAAGAATGCAGGCACCTACGATGCCAA
GGTGAAGAAGTGAGGGCTTGGAAGACCGCCCTGCCAAGTGC GGCTGCCCCTGCCAGAGGCTCAGGCCTGGGTCTA
AGGGGCACGTGGAGCAAGAGATCCTGGTCCCCTCCCTGCTGGACCTGCCACCCAGAGCTTCCTGCCTAGTCCCAC
TGGGCTGGCCACCAGGCCTCTGACCCAGGCTGCTCTGCGGGCCCTTCCTCCTCCTCTCCTGCTCCAACCTTCTG
TCCACCTGGGGACAGTCTGTGCCTGTAGCCTCATGACCCCAACCCAGCCAGGCATGGCTAACCCCTGACTGCTT
GCCTCATATTTAAGCTGCTGCTCTGGCCAAGTGCCTAATTTTAACCCAGACCTCAATAAAGACACCTTTTGTACC
AAAA

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FIGURE 1250

MAASTDMAGLEESFRKF¹AIHGDPKASGQEMNGKNWAKLCKDCKVADGKSVTGTDVDIVFSKVKGKSARVINYE²EF
KKALEELATKRFQ³GKSKEEAFDAICQLVAGKEPANVGVT⁴KAKTGGAVDRLTDT⁵SRYTGSHKERFDESGKGKGIAG
RQDILDDSGYVSAYKNAGTYDAKVKK

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FIGURE 1251

GGCGCTCGCAGAGCCGGAAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCTTGAGGTGTCGCCGCTCCC
TGTCCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGCGCGGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGCGCGGCCGCGGGCAGGGCGGGGGAAGAAAAACACCCTGTTTCTCTCCGGCCCCCAC
CGCGGATCATGTACCAGGATTATCCCGGGAACCTTTGACACCTCGTCCCGGGGCAGCAGCGGCTCTCTGCGCACG
CCGAGTCTACTCCAGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCAATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTGGCACCACCGTGGGCCGAGGAGGAGAGATGAGCAGCTGTCTCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGCTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTTCATGTTGGTGGCTCACGGCCCAGTGTGCAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCCAGCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAAC
AGGAGCCCCCTGGAAGAGGACAGCCCCTCGTCCTCGTCGGCGGGGCTGGACAAGGCCCAGCGCTCTGTCAACAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCCTGCACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTCACCTATCCTAGCGTCTTGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAATCCCCCACTC
TGCTGGCTCTGTAACCCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCTCTCTCGCTCCTCCTTCCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGCAAGCAAATCCCATTTCTTGAAAAGCCTTGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTCT
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCCCTTCTCCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCATCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGGAAA

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FIGURE 1252

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSM SNP
YPRSHPYSPPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPEEEEEKRRIRRRERNKLAAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASP SESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1253

TAGTTATTAAAGTTCCTATGCAGCTCCGCTCCGTCCGGCCTCATTTCCTCAAAAAATCCCTGCTTTCCCCGCTC
GCCACGCCCTCCTGCTACCCGGCTTTAAAGCTAGTGAGGCACAGCCTGCGGGGAACGTAGCTAGCTGCAAGCAGA
GGCCGGCATGACCACCGAGCAGCGACGCAGCCTGCAAGCCTTCCAGGATTATATCCGGAAGACCCTGGACCCTAC
CTACATCCTGAGCTACATGGCCCCCTGGTTTAGGGAGGAAGAGGTGCAGTATATTAGGCTGAGAAAAACAACAA
GGGCCCAATGGAGGCTGCCACACTTTTCTCAAGTTCCTGTTGGAGCTCCAGGAGGAAGGCTGGTTCCGTGGCTT
TTTGGATGCCCTAGACCATGCAGGTTATTCTGGACTTTATGAAGCCATTGAAAGTTGGGATTTCAAAAAAATTGA
AAAGTTGGAGGAGTATAGATTACTTTTAAACGTTTACAACCAGAATTTAAACCAGAATTATCCCAACCGATAT
CATTTCTGATCTGTCTGAATGTTTAAATTAATCAGGAATGTGAAGAAATTCTACAGATTTGCTCTACTAAGGGGAT
GATGGCAGGTGCAGAGAAATTGGTGGAATGCCTTCTCAGATCAGACAAGGAAAACCTGGCCCCAAAACCTTTGAACT
TGCTTTGGAGAAAGAAAGGAACAAGTTCAGTGAAGTGTGGATTGTAGAGAAAGGTATAAAAGATGTTGAAACAGA
AGATCTTGAGGATAAGATGGAACCTTCTGACATACAGATTTTCTACCAAGAAGATCCAGAATGCCAGAATCTTAG
TGAGAATTCATGTCCACCTTCAGAAAGTGTCTGATACAAACTTGTACAGCCCATTAAACCAAGAAATTACCAATT
AGAGCTTGCTTTGCCTGCTATGAAAGGAAAAACACAATAATATGTGCTCCTACAGGTTGTGGAAAAACCTTTGT
TTCAGTCTTATATGTGAACATCATCTTAAAAAATTTCCACAAGGACAAAAGGGGAAAGTTGTCTTTTTTGCGAA
TCAGATCCAGTGTATGAACAGCAGAAATCTGTATTCTCAAATACTTTGAAAGACATGGGTATAGAGTTACAGG
CATTTCTGGAGCAACAGCTGAGAATGTCCAGTGGAAACAGATTGTTGAGAACAATGACATCATCTTTAACTCC
ACAGATTCTTGTGAACAACCTTAAAAAGGGAAACGATTCCATCACTATCCATCTTTACTTTGATGATATTTGATGA
ATGCCACAACACTAGTAAACAACACCCGTCATAATATGATCATGTTTAAATTATCTAGATCAGAACTTGGAGGATC
TTCAGGCCCCTGCCCCAGGTGCTTGGGCTGACTGCCTCGGTTGGTGTGGGGATGCCAAAAACACAGATGAAGC
CTTGGATTATATCTGCAAGCTGTGTGCTTCTCTTGATGCGTCAGTGATAGCAACAGTCAAACACAATCTGGAGGA
ACTGGAGCAAGTTGTTTATAAGCCCCAGAAGTTTTTCAGGAAAGTGAATCACGGATTAGCGACAAATTTAAATA
CATCATAGCTCAGCTGATGAGGGACACAGAGAGTCTGGCAAAGAGAATCTGCAAAGACCTCGAAAACCTTATCTCA
AATTCAAAATAGGGAATTTGGAACACAGAAATATGAACAATGGATTGTTACAGTTCAGAAAGCATGCATGGTGT
CCAGATGCCAGACAAAGATGAAGAGAGCAGGATTTGTAAAGCCCTGTTTTTATACACTTCACATTTGCGGAAATA
TAATGATGCCCTCATTATCAGTGAGCATGCACGAATGAAAGATGCTCTGGATTACTTGAAAGACTTCTTCAGCAA
TGTCGAGCAGCAGGATTGGAAGAGATTGAGCAAGATCTTACTCAGAGATTTGAAGAAAAAGCTGCAGGAACTAGA
AAGTGTTTTCCAGGGATCCCAGCAATGAGAATCCTAAACTTGAAGACCTCTGCTTCATCTTACAAGAAGAGTACCA
CTTAAACCCAGAGACAATAACAATTTCTTTTGTGAAAACCAGAGCACTTGTGGACGCTTTAAAAAATTGGATTGA
AGGAAATCCTAAACTCAGTTTTCTAAAACCTGGCATATTGACTGGACGTGGCAAAACAAATCAGAACACAGGAAT
GACCCTCCCGGCACAGAAGTGTATATTGGATGCATTCAAAGCCAGTGGAGATCACAATATTCTGATTGCCACCTC
AGTTGCTGATGAAGGCATTGACATTGCACAGTGCAATCTTGTCTATCCTTTATGAGTATGTGGGCAATGTCATCAA
AATGATCCAAACCAGAGGCAGAGGAAGAGCAAGAGGTAGCAAGTGCTTCCTTCTGACTAGTAATGCTGGTGTAA
TGAAAAAGAACAATAAACATGTACAAAGAAAAAATGATGAATGACTCTATTTTACGCCTTCAGACATGGGACGA
AGCAGTATTTAGGGAAAAGATTCTGCATATACAGACTCATGAAAAATTCATCAGAGATAGTCAAGAAAAACCAA
ACCTGTCCCTGATAAGGAAAAATAAAAACTGCTCTGCAGAAAGTGCAAAGCCTTGGCATGTTACACAGCTGACGT
AAGAGTGATAGAGGAATGCCATTACACTGTGCTTGGAGATGCTTTTAAGGAATGCTTTGTGAGTAGACCACATCC
CAAGCCAAAGCAGTTTTCAAGTTTTGAAAAAAGAGCAAAGATATTCTGTGCCCGACAGAACTGCAGCCATGACTG
GGGAATCCATGTGAAGTACAAGACATTTGAGATTCCAGTTATAAAAAATTGAAAGTTTTGTGGTGGAGGATATTGC
AACTGGAGTTCAGACACTGTACTCGAAGTGAAGGACTTTCATTTTGAGAAGATACCATTGTATCCAGCAGAAAT
GTCCAATGATATCAGGTCCCTCAATCTTCAGCTACAGGGAATGAGTAACTTTGAGTGGAGAAGAAACAAACATAG
TGGGTATAATCATGGATCGCTTGTACCCCTGTGAAAATATATTTTTTAAAAATAAAAAAAAAAAAA

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FIGURE 1254

MTTEQRRSLQAFQDYIRKTLDPITYILSYMAPWFREEEVQYIQAEKNNKGPMEAATLFLKFLELEQEEGWFRGFLD
ALDHAGYSGLYEAIESWDFKKIEKLEEYRLLLKRLQPEFKTRIIPDTIISDLSECLINQECEEILQICSTKGMMMA
GAEKLVECLLRSDKENWPKTLKLALEKERNKFSELWIVEKGIKDVETEDLEDKMETSDIQIFYQEDPECQNLSN
SCPPSEVSDTNLYSPFKPRNYQLELALPAMKGKNTIICAPTGCCKTFVSLICEHHLKKFPQGQKGKVFFANQI
PVYEQQKSVFSKYFERHGYRVTGISGATAENVPVEQIVENNDIIILTPQILVNNLKKGTIPSLSIFTLMIFDECH
NTSKQHPYNMIMFNYLDQKLGGSSGPLPQVIGLTASVGVGDAKNTDEALDYICKLCASLDASVIATVKHNLEELE
QVVYKPKQFFRKVESRISDKFKYIIAQLMRDTESLAKRICKDLENLSQIQNREFGTQKYEQWIVTVQKACMVFM
PDKDEESRICKALFLYTSHLRKYNDALIISEHARMKDALDYLDKDFFSNVRAAGFEEIEQDLTQRFEEKLQELESV
SRDP SNENPKLEDLCFILQEYHLNPETITILFVKTRALVDALKNWIEGNPKLSFLKPGILTGRGKTNQNTGMTL
PAQKCILDAFKASGDHNLIIATSVADEGIDIAQCNLVILYEVGNVIKMIQTRGRGRARGSKCFLLSNAGVIEK
EQINMYKEKMMNDSILRLQTWDEAVFREKILHIQTHEKFIRDSQEKPKVPDKENKKLLCRKCKALACYTADVRV
IEECHYTVLGDADFKECFVSRPHPKPKQFSSFEKRAKIFCARQNCSDWGIHVKYKTFEIPVIKIESFVVEDIATG
VQTLYSKWKDFHFEKIPFDPAEMSK

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FIGURE 1255

GTTTTTTAGGAAGAGTGTCCCGCAGAGACCCGGCGGGAGCTGCCAGGAGCTCTGGGATTCCAGCGGCTGGAAGCC
ACCTGGGAAGCCTGGCCTCAGTGTGGAAGAGAAGGCAGCAGGATTATTACAGAACCTTGTGAAGCCAACGCGGGC
AGCCGCCAGGAGCTGCAGACCGAGAGGATCTCGTCCTTTCTTGCGGCCAGGGAGACCAGGCCTTTCATTCTGGG
CTCGAGACCAACAATTCTGAATTCCGAATCCCCCTGCGTGTGGGACTCAAGGTTGCCAGGGCTCACCTCTGATG

GGTGGGCAGGTGAGCGCTTCCAACAGCTTCTCGAGGCTGCACTGCAGAAATGCCAACGAGGACTGGATGTCGGCA
CTGTGTCCCCGGCTCTGGGATGTGCCCTCCACCACCTCTCCATCCCAGGGAGCCACGACACGATGACGTACTGC
CTGAACAAGAAGTCCCCATTCTCACGAGGAGTCCCGGCTGCTGCAGCTGCTGAACAAGGCCTTGCCCTGCATC
ACGCGCCCTGTGCTGCTGAAATGGTCCGTACCCAGGCACTGGACGTACAGAGCAGCTGGATGCCGGGGTGC GG
TACCTGGACCTGCGGATAGCCACATGCTGGAGGGCTCGGAGAAGAACCTGCACCTTGTCCATATGGTGTACACA
ACGGCGCTGGTGGAGGACACACTCACGGAATCTCGGAGTGGCTGGAGCGGCATCCACGCGAGGTGGTCACTCTG
GCCTGCAGAACTTCGAGGGGCTGAGCGAGGACCTGCACGAGTACCTGGTGCCTGTATCAAGAACATCTTCGGG
GACATGCTGTGCTCTGCTGGGGAGGTGCCGACACTGCGGCAGCTGTGGTCCCGGGGCCAACAGGTCACTGCTCTC
TATGAAGACGAGAGCTCCTTGCGCCGGCACCACGAGCTGTGGCCAGGAGTCCCCTACTGGTGGGGAAACAGGGTG
AAGACCGAGGCCCTCATCCGATACCTGGAGACCATGAAGAGCTGCGGCCGCCAGGAGGGTTGTTCTGTCGGCCGC
ATCAACCTCACGGAGAACCTGCAGTACGTTCTGGCGCACCCGTCCGAGTCCCTGGAGAAGATGACGCTGCCAAC
CTTCCGCGGCTGAGCGCGTGGGTCCGAGAGCAGTGCCCGGGGCCGGGTTACGGTGCACCAACATCATCGCGGGG
GACTTCATCGGCGCAGACGGCTTCGTCAGTGACGTCAATCAGAAAGCTGCTGTGGTGTGACGGGAC
CCTTCTGAAGTTCGGGACGCGCGGCTGCAGTTTACCCCCGAATTTCCAAATGGAGTTTCGCTCTCGTTGCCGA
GGCTGGAGTGTAGTAGTGTGATCCTGGCTCACTGCAACCTCCACCTCCCGGGTTCCAGCAAATTTCTCTGCCTCA
GCCTCCCAAGTAGCTGGGATTGCAGGCGCCCGCCACCACGCGCCGATAAATTTTGTGTGTTTAGCAGAGACGGGG
TTTCACCATGTTGGCCAGGCTGGTCTCGATCTCCTGACCTCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCT
GGGATGACAGGCGTGAGCCACGCGCCCGGCTATACCTCATTTTCTACATGTCGCTTGTGGAGCTGCTGGTTC
AAGTTCAGCCAGCCAATGGATGCCAGCACCATTTTTACTCCCTTTCCCAAGCAAATCGTGCATTTTTGTCTA
ACGAGAGACATCAGTTTCTCAGGATGATCCTCAAGAACGTTATGGAGTCCATGTTGCAATAGGTTCTCTTTGGGA
CCTAATGACTCATTTTCCAAAAATCCGCTTCTACTTTTGGTACCCGGTTGCTACGGTGAAATGAAGGTGCCCCGC
ATCCAGAAAGACGCACTCCTGGACCACAACCGGCGGCTACCTCAGCCCCACGGCTCTGCAGGATCAGGGCTCGGG
CAGGCCCCGCGGAGATGAAGAATTTGCAGGGAGCCTCCCTGACTTCCGTGCGCTGTGAATCCTTGTCTGTAGGG
GCGTATCCACAAAATCACCAAATTCATACAGATCGTTTAAATAAATGAACATCATTAAAGTC

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FIGURE 1256

MGGQVSASNSFSRLHCRNANEDWMSALCPRLWDVPLHHSIPGSHDTMTYCLNKKSPISHEESRLLQLLNKALPC
ITRPVVLKWSVTQALDVTEQLDAGVRYLDLRIAHMLEGSEKNLHFVHMVYTTALVEDTLTEISEWLERHPREVI
LACRNFEGLSEDLHEYLVACIKNIFGDMLCPRGEVPTLRQLWSRGQQVIVSYEDESSLRRHHELWPGVPYWWGNR
VKTEALIRYLETMKSCGRPGLFVAGINLTENLQYVLAHPSESLEKMTLPNLPRLSAWVREQCPGPGSRCTNIIA
GDFIGADGFVSDVIALNQKLLWC

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FIGURE 1257

CCCAATCACTCCTGGAATACACAGAGAGAGGCAGCAGCTTGCTCAGCGGACAAGGATGCTGGGCGTGAGGGACCA
AGGCCTGCCCTGCACTCGGGCCTCCTCCAGCCAGTGCTGACCAGGGACTTCTGACCTGCTGGCCAGCCAGGACCT
GTGTGGGGAGGCCCTCCTGCTGCCTTGGGGTGACAATCTCAGCTCCAGGCTACAGGGAGACCGGGAGGATCACAG
AGCCAGCATGTTACAGGATCCTGACAGTGATCAACCTCTGAACAGCCTCGATGTCAAACCCCTGCGCAAACCCCG
TATCCCCATGGAGACCTTCAGAAAGGTGGGGATCCCCATCATCATAGCACTACTGAGCCTGGCGAGTATCATCAT
TGTGGTTGTCCTCATCAAGGTGATTCTGGATAAATACTACTTCCCTCTGCGGGCAGCCTCTCCACTTCATCCCGAG
GAAGCAGCTGTGTGACGGAGAGCTGGACTGTCCCTTGGGGGAGGACGAGGAGCACTGTGTCAAGAGCTTCCCCGA
AGGGCCTGCAGTGGCAGTCCGCCTCTCCAAGGACCATCCACACTGCAGGTGCTGGACTCGGCCACAGGGAAGTG
GTTCTCTGCCTGTTTCGACAACCTCACAGAAGCTCTCGCTGAGACAGCCTGTAGGCAGATGGGCTACAGCAGCAA
ACCCACTTTTCAGAGCTGTGGAGATTGGCCCAGACCAGGATCTGGATGTTGTTGAAATCACAGAAAACAGCCAGGA
GCTTCGCATGCGGAACCTCAAGTGGGCCCTGTCTCTCAGGCTCCCTGGTCTCCCTGCACTGTCTTGCTGTGGGAA
GAGCCTGAAGACCCCCCGTGTGGTGGGTGGGGAGGAGGCCTCTGTGGATTCTTGCCCTTGCGAGGTGAGCATCCA
GTACGACAAACAGCACGCTCTGTGGAGGGAGCATCTGGACCCCCACTGGGTCTCACGGCAGCCCACTGCTTCAG
GAAACATACCGATGTGTTCAACTGGAAGGTGCGGGCAGGCTCAGACAAACTGGGCAGCTTCCCATCCCTGGCTGT
GGCCAAGATCATCATCATTGAATTCAACCCCATGTACCCCAAAGACAATGACATCGCCCTCATGAAGCTGCAGTT
CCCACTCACTTTCTCAGGCACAGTCAGGCCCATCTGTCTGCCCTTCTTTGATGAGGAGCTCACTCCAGCCACCCC
ACTCTGGATCATTGGATGGGGCTTTACGAAGCAGAATGGAGGGAAGATGTCTGACATACTGCTGCAGGCGTCAGT
CCAGGTCATTGACAGCACACGGTGCAATGCAGACGATGCGTACCAGGGGGAAGTCACCGAGAAGATGATGTGTGC
AGGCATCCCGGAAGGGGGTGTGGACACCTGCCAGGGTGACAGTGGTGGGCCCCCTGATGTACCAATCTGACCAGTG
GCATGTGGTGGGCATCGTTAGCTGGGGCTATGGCTGCGGGGGCCCGAGCACCCAGGAGTATACACCAAGGTCTC
AGCCTATCTCAACTGGATCTACAATGTCTGGAAGGCTGAGCTGTAATGCTGCTGCCCCCTTTCAGTGCTGGGAGC
CGCTTCCTTCTGCCCCCTGCCACCTGGGGATCCCCCAAAGTCAGACACAGAGCAAGAGTCCCCCTTGGGTACACCC
CTCTGCCCCACAGCCTCAGCATTCTTGGAGCAGCAAAGGGCCTCAATTCCTGTAAGAGACCCTCGCAGCCCAGAG
GCGCCCAGAGGAAGTCAGCAGCCCTAGCTCGGCCACACTTGGTGCTCCCAGCATCCCAGGGAGAGACACAGCCCA
CTGAACAAGGTCTCAGGGGTATTGCTAAGCCAAGAAGGAACCTTCCCACACTACTGAATGGAAGCAGGCTGTCTT
GTAAAAGCCCAGATCACTGTGGGCTGGAGAGGAGAAGGAAAGGGTCTGCGCCAGCCCTGTCCGTCTTACCCATC
CCCAAGCCTACTAGAGCAAGAAACAGTTGTAATATAAAATGCACCTGCCCTACTGTTGGTATGACTACCGTTACC
TACTGTTGTCATTGTTATTACAGCTATGGCCACTATTATTAAAGAGCTGTGTAACATCAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 1258

MLQDPDSQPLNSLDVKPLRKPRIPMETFRKVGIPIIIIALLSLASIIIVVVLIKVILDKYYFLCGQPLHFI PRKQ
LCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLDSATGNWFSACFDNFTEALAEACRQMGYSSKPT
FRAVEIGPDQDL DVVEITENSQELRMRNSSGPCLSGSLVSLHCLACGKSLKTPRVVGEEASVDSWPWQVSIQYD
KQHVCGGSILDPHWVLTAAHCFRKHTDVFNWKVRAGSDKLSFSLAVAKIIIIIEFNPMYPKDNDIALMKLQFPL
TFSGTVRPICLPFFDEELTPATPLWIIIGWGFTKQNGGKMSDILLQASVQVIDSTRCNADDAYQGEVTEKMMCAGI
PEGGVDTQCQDSSGGPLMYQSDQWHVVGIVSWGYGCGGPSTPGVYTKVSAYLNWIYNVWKAEL

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FIGURE 1259

AATCTGTGGTTTTTGTCTCAAAACTCAGTCTATCTGGATGCGTTGAATTATAGACAGATGCTCTGGCCGTGCTGGAA
GAAGAGGTCAAGACCTGATGGGAGATGTATATTTCTTTGATATTCCATTCCCCAAAATAGGAAAACTCATAAAAT
CCAATGTTCCCTGAGCTGAGAGGACACTTCCCTCTCAGCATAACCCTGGTCCCTGCGACTCATGCTGCTGGCTTCCA
AGGGAGATGACCCAGAGGATGCCAAGGCAAAGGTGCTATCAGTGCTAAAGCATTTCATTGCTGTCCTTCAAGCAAC
CCAGAGTCATGGACATGTTAAAACTTTACTTCCCTGTTTTCTTTGCAGTTCCTGGTGAAAAGAGGGCTATTTAGATC
AAGAAGGTAATCCTATGGGGTTTGTCTGGACTTGTGTACATTTCATTATCATGAACCTTCTAATCTTGTTTTTG
TGAGTTTTCTTGTAATGGCCTCTTCCATGATCTCTGTGAGCCAACCAGGAAAGGCTCAAAACATTTTTCTCAAG
ACGTTATGGAAGCTAGTATTAGTATTGGCACATCTCTTTGGAAGAAGATATTTCCACCAAAGTTCCAGGATG
CACACTTCGAGTTTTATCAATCAAAGGTGTTCCCTGATGATCTCCCTGAGGATTTTAGTGATGCTTTAGATGAAT
ATAACATGAAAATTATGGAGGACTTTACCACTTTCCCTACGAATTGTTCCAAACTGGCTGATATGAATCAGGAAT
ATCAACTCCCATTGTCAAAAATCAAATTCACAGGTAAAGAATGTGAAGACTCTCAACTCGTATCTCATTGATGA
GCTGCAAGGAAGGAAGAGTAGCAATTTACCATTGTTTGTCTGTCTGGGAACTTTGATGATGATTTGCTTCGAC
TAGAAACTCCAAACCATGTTACTCTAGGCACAATCGGTGTCAATCGCTCTCAGGCTCCAGTGCTGTTGTACAGAC
AATTTGATAACCGAGGAAGGAAAATGTCGCTTAATGCCTATGCACTGGATTTCTACAAACATGGTTCCTTGATAG
GATTAGTCCAGGATAACAGGATGAATGAAGGAGATGCTTATTATTTGTTGAAGGATTTTGCACTCACCATTAAAT
CTATCAGTGTTTCTTGCCTGAGCTATGTGAAAATGAAGACGACAACGTTGTCTTAGCCTTTGAACAACCTGAGTA
CAACTTTTTGGGAAAAGTTAAACAAAGTCTAAAAACAAAGTCTATGCAAACCACTCAAAAATAATTCCATAGTAG
TTTTTCAGGTCACGTTTTTGATTCTTATGCTTCTTGCCAGAAATACATTATGATAAAGTGGAATAACATTACGAT
GAAGTGGAAGAGCAAACACTTTGGAATCAAACAGAGTTGCAATCAAACCTGCCATGTTCTGTGATGAATACTCA
CAAATTATTTAGTATACCTGAATCTTGTTTTCTTTTATAACTGAGTAATAATGGTTACATCTCAGGTAGTTTGA
GGATTGACTAAAAAAATGCGAGAATGTTGTATGTGACTGAATAACAATTTTACTCTGCGAAGCCAAAGTAAATA
TAATATTATCAGTAACTTTATCCCCAGTGTCAGTATTTATAAAATGTTTATTAAGGCTAGAAAAATGAATACAA
TATCCTGAAGGTGAAATATATTCTCTTCAATTAGCATAAATATGATTTACATAAGTTAGCTATACAGCTATTGAG
ATAGTACTTTCTAGTAACTTAACTACTTTTTAAACATACATTTTGTGTTGATTTAACAAAAATATAGAGAATG
ATTTGCTTTATTGTAATTGTATATAAGTGACTGAAAAAGCACAAAGAAATAAAGTGGGTTCGATCTGTTTACCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1260

MSGRAGRRGQDLMGDVYFFDIPFPKIGKLIKSNVPELRGHFPLSITLVLRMLLASKGDDPEDAKAKVLSVLKHS
LLSFKQPRVMDMLKLYFLFSLQFLVKEGYLDQEGNPMGFAGLVSHLHYHEPSNLVFVSFLVNGLFHDLCPTRKG
SKHFSQDVMEKLVVLVLAHLFGRRYFPPKFQDAHFIFYQSKVFLDDLPEDFSDALDEYNMKIMEDFTTFLRIVSKL
ADMNQEYQLPLSKIKFTGKECEDSQLVSHLMSCKEGRVAISPFCVCLSGNFDDDLLRLETPNHVTIGTIGVNRQA
PVLLSQKFDNRGRKMSLNAYALDFYKHGSLIGLVQDNRMNEGDAYLLKDFALTIKSISVSLRELCENEDDNVVL
AFEQLSTTFWEKLNKV

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FIGURE 1261

ATCTGTGGGAGCAGTTTATTCCAGTATCACCCAGGGTGCAGCCACACCAGGACTGTGTTGAAGGGTGTTTTTTTT
CTTTTAAATGTAATACCTCCTCATCTTTTCTTCTTACACAGTGTCTGAGAACATTTACATTATAGATAAGTAGTA
CATGGTGGATAAATTCTACTTTTAGGAGGACTACTCTCTTCTGACAGTCCTAGACTGGTCTTCTACACTAAGACA
CCATGAAGGAGTATGTGCTCCTATTATTCCCTGGCTTTGTGCTCTGCCAAACCCTTCTTTAGCCCTTCACACATCG
CACTGAAGAATATGATGCTGAAGGATATGGAAGACACAGATGATGATGATGATGATGATGATGATGATGATGATGATG
ATGATGATGAGGACAACCTCTCTTTTTTCCAACAAGAGAGCCAAGAAGCCATTTTTTTTCCATTTGATCTGTTTCCAA
TGTGTCCATTTGGATGTCAGTGCTATTACGAGTTGTACATTGCTCAGATTTAGGTTTGACCTCAGTCCCAACCA
ACATTCCATTTGATACTCGAATGCTTGATCTTCAAACAATAAAATTAAGGAAATCAAAGAAAATGATTTTAAAG
GACTCACTTCACTTTATGGTCTGATCCTGAACAACAACAAGCTAACGAAGATTCACCCAAAAGCCTTTCTAACCA
CAAAGAAGTTGCGAAGGCTGTATCTGTCCACAATCAACTAAGTGAAATACCACTTAATCTTCCCAAATCATTAG
CAGAACTCAGAATTCATGAAAAATAAGTTAAGAAAATACAAAAGGACACATTCAAAGGAATGAATGCTTTACACG
TTTTGGAAATGAGTGCAAAACCCTCTTGATAATAATGGGATAGAGCCAGGGGCATTTGAAGGGGTGACGGTGTTCC
ATATCAGAATTGCAGAAGCAAACTGACCTCAGTTCCTAAAGGCTTACCACCAACTTTATTGGAGCTTCACTTAG
ATTATAATAAAATTTCAACAGTGGAACCTTGAGGATTTTAAACGATACAAAGAACTACAAAGGCTGGGCCCTAGGAA
ACAACAAAATCACAGATATCGAAAATGGGAGTCTTGCTAACATACCACGTGTGAGAGAAAATACATTTGGAAAACA
ATAAACTAAAAAAAATCCCTTCAGGATTACCAGAGTTGAAATACCTCCAGATAATCTTCCTTCATTCTAATTCAA
TTGCAAGAGTGGGAGTAAATGACTTCTGTCCAACAGTGCCAAAGATGAAGAAATCTTTATACAGTGCAATAAGTT
TATTCAACAACCCGGTGAAATACTGGGAAATGCAACCTGCAACATTTCTGTTGTGTTTTGAGCAGAATGAGTGTTT
AGCTTGGGAACCTTTGGAATGTAATAATTAGTAATTGGTAATGTCCATTTAATATAAGATTCAAAAATCCCTACAT
TTGGAATACTTGAACCTCTATTAATAATGGTAGTATTATATATACAAGCAAATATCTATTTCTCAAGTGGTAAGTCC
ACTGACTTATTTTATGACAAGAAATTTCAACGGAATTTTGCCAACTATTGATACATAAGGGTTGAGAGAAACAA
GCATCTATTGCAGTTTCTTTTTGCGTACAAATGATCTTACATAAATCTCATGCTTGACCATTCCTTTCTTCATAA
CAAAAAGTAAGATATTCGGTATTTAACACTTTGTTATCAAGCACATTTTAAAAAGAGCTGTACTGTAAATGGAA
TGCTTGACTTAGCAAAATTTGTGCTCTTTCAATTGCTGTTAGAAAAACAGAATTAACAAAGACAGTAATGTGAAG
AGTGCATTACACTATTCTTATTCTTTAGTAGCTTGGGTAGTACTGTAATATTTTAAATCATCTTAAAGTATGATT
TGATATAATCTTATTGAAATTACCTTATCATGTCTTAGAGCCCGTCTTTATGTTTAAACTAATTTCTTAAATA
AAGCCTTCAGTAAATGTTTATTACCAACTTGATAAATGCTACTCATAAGAGCTGGTTTGGGGCTATAGCATATGC
TTTTTTTTTTTTAATTATTACCTGATTTAAAAATCTCTGTAAAAACGTGTAGTGTTCATAAAATCTGTAACCTG
CATTTTAATGATCCGCTATTATAAGCTTTTAAATAGCATGAAAATTGTTAGGCTATATAACATTGCCACTTCAACT
CTAAGGAATATTTTGGAGATATCCCTTTGGAAGACCTTGCTTGGAAGAGCCTGGACACTAACAAATCTACACCAA
ATTGTCTCTTCAAAATACGTATGGACTGGATAACTCTGAGAAACACATCTAGTATAACTGAATAAGCAGAGCATCA
AATTAAACAGACAGAAACCGAAAGCTCTATATAAATGCTCAGAGTTCTTTATGTATTTCTTATTGGCATTCAACA
TATGTAAATCAGAAAACAGGGAAATTTTCATTAAAAATATTGGTTTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1262

MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDDDDDEDNSLFPTREPRSHFFPFDFLFP
CPFGCQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLYGLILNNKLTKIHPKAFLTT
KKLRRLYLSHNQLSEIPLNLPKSLAELRIHENKVKKIQKDTFKGMNALHVLEMSANPLDNNGIEPGAFEGVTVFH
IRIAEAKLTSVPKGLPPTLLELHLDYNKISTVELEDFKRYKELQRLGLGNNKITDIENGLANIPRVREIHLENN
KLKKIPSGLPKYLQIIFLHSNSIARVGVNDFCPTVPKMKKSLYSAISLFNNPVKYWEMQPATFRCVLSRMSVQ
LGNFGM

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FIGURE 1263

ACGAGGGACGCAGCCATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATTCCCGGCCGCTGCA
AGGGAGCTCTGCGTGCCCTTGTGTGCCCTACCTGGACAAACCCCCAACTCCGCTCCACTTCTACCGGGACTGG
GTCTGCCCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCACTGGCCGGCCCTCCAGAAGTGGTCCCTCCCC
TATTTTCAGAGCCACAGTGGGCTCCACAGAGGTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGA
GGGGATCGCTTCATGATGCCAGCTGAGCGCCGCTGCCCCGTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGGCC
CAGCACCCCTGGAGTCCCTCTATGTGCAGAAGCAGTGTCTCAACCTGCCCAGCGAGCTGCCCCAGCTGCTGCCTGAT
CTGGAATCCCATGTGCCCTGGGCCTCCGAAGCCCTGGGAAAGATGCCCGATGCTGTGAACCTTCTGGCTGGGGGAG
GCGGCTGCAGTGACTTCTTTGCACAAGGACCACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTC
CTGTTCCATCCGCCACGCGACCGGCCCTTCATCCCCTATGAGCTGTACACGCCGGCAACCTACCAGCTAACTGAA
GAGGGCACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGTCCAGGACCTGCCTGCTCACGGTT
CGTGTCTGCAGGCCCATCGCCTACCCTCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTCTGGCTG
CCCACGGCCTGCAGCCACAGGCTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTT
CACTTCAGGATCCACAGGCAGCTCAAGAATGTATGGAACCTGAAAGTCTTTGACCAGGACCTGGTGACCGGAGAT
GACCCTGTGTTGTCTAGTACTGTTTGATGCGGGGACTCTGCGGGCTGGGGAGTTCCGGCGCGAGAGCTTCTCACTG
AGCCCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTTGCGCTGCAGAGTCTGGCTGACCGTGGCGAGTGGCTCGTC
AGCAATGGCGTTCTGGTGGCCCGGAGCTCTCCTGCTTGACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCC
TCAGAGCACAGAGTTCAGCTTGTGGTTCCTGGGTCTGTGAGGGTCCGCAGGAGGCCTCTGTGGGCACTGGCACC
TTCCGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCCCTGCAGGATGCCCCGAGGAGCAACTA
AAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTTGTCTTCCCCACGTCCAGGAGCCCTGATG
AGAGTGAGCTGAAAAAAGAAGCAGGACTGAGGGAGCTGGCCGTGCGACTGGGCTTCGGGGCCCTGTGCAGAGGAG
CAGGCCCTTCTGAGCAGGAGGAAGCAGGTGGTGGCCGCGGCCTTGAGGCAGGCCCTGCAGCTGGATGGAGACCTG
CAGGAGGATGAGATCCCAGTGGTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGG
CAGCTGGCTGGCCTGAAGGAGCTGGGCCTCTTGGAATTGCGTCTCTACATCACCGGGGCCCTCGGGCTCCACCTGG
GCCTTGGCCAACCTTTATGAGGACCCAGAGTGGTCTCAGAAAGACCTGGCAGGGCCCACTGAGTTGCTGAAGACC
CAGGTGACCAAGAACAAGCTGGGTGTGCTGGCCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGT
GCCCCGTTGGGCTACCCAAGCTGCTTACCAACCTGTGGGCCCTCATCAACGAGGCGCTGCTGCATGATGAGCCC
CATGATCACAAAGCTCTCAGATCAACGGGAGGCCCTGAGTCATGGCCAGAACCCTCTGCCCATCTACTGTGCCCTC
AACACCAAAGGGCAGAGCCTGACCACCTTTGAATTTGGGGAGTGGTGCAGATTCTCTCCCTACGAGGTTCGGCTTC
CCCAAGTACGGGGCCTTCATCCCCTCTGAGCTCTTTGGCTCCGAGTTCTTTATGGGGCAGCTGATGAAGAGGCTT
CCTGAGTCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCTCCAGGACAGCTTATAC
TGGGCCTCAGAGCCCAGCCAGTTCTGGGACCGCTGGGTGAGGAACCAGGCCAACCTGGACAAGGAGCAGGTCCCC
CTTCTGAAGATAGAAGAACCACCTCAACAGCCGGCAGRATAGCTGAGTTTTTACCGATCTTCTGACGTGGCGT
CCACTGGCCCAGGCCACACATAATTTCTGCGTGGCCTCCATTTCCACAAAGACTACTTTTCAGCATCTCACTTC
TCCACATGGAAAGCTACCACTCTGGATGGGCTCCCCAACCCAGCTGACACCCTCGGAGCCCCACCTGTGCCTGCTG
GATGTTGGCTACCTCATCAATACCAGCTGCCTGCCCCCTCTGCAGCCCACTCGGGACGTGGACCTCATCCTGTCA
TTGGACTACAACCTCCACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCGGTTCTGCCAGGAGCAGGGGATCCCG
TTCACCCATCTCGCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGC
CCCGGAGCCCCGTGCGGTGCTGCACTTCTCTGGTTCAGCGACTCCTTCCGGGAGTACTCGGCCCTGGGGTCCGG
CGGACACCCGAGGAGGCGGCAGCTGGGGAGGTGAACCTGTCTTCATCGGACTCTCCCTACCACTACACGAAGGTG
ACCTACAGCCAGGAGGACGTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAACAACCAGGAGCAGCTG
CTGGAGGCTCTGCGCCAGGCAGTGCAGCGGAGGCGGCAGCGCAGGCCCCACTGATGGCCGGGGCCCCCTGCCACCC
CTAACTCTCATTATTCCCTGGCTGCTGAGTTGCAGGTGGGAACTGTATCACGCAGTGCTTCAGAGCCTCGGGC
TCAGGTGGCACKGTCCCAGGGTCCAGGCTGAGGGCTGGGAGCTCCCTTGCGCCTCAGCAGTTTGAGTGGGGTAA
GGAGGCCAAGCCCATTTGTGTAATACCCAAAACCCCCCGCCTGTGCTGTTTTCCCTTCTGCGCTACCTTGAG
TAGTTGGAGCACTTGATACATCACAGACTCATACAAAAA

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FIGURE 1264

MAEAALEAVRSELREFPAAARELCVPLAVPYLDKPPTPLHFYRDWVCPNRPCTIRNALQHWPALQKWSLPYFRAT
VGSTEVSVAVTPDGYADAVRGDRFMMPAERRLPISFVLVDVLEGRAQHPGVLYVQKQCSNLPSELPQLLPDLESHV
PWASEALGKMPDAVNFWLGEAAAVTSLHKDHYENLYCVVSGEKHFLFHPPSDRPFIPYELYTPATYQLTEEGTFK
VVDEEAMEKAEVSRTCLLTVRVLQAHRLPSKDLVTPSDCYVTLWLPTACSHRLQTRTVKNSSSPVWNQSFHFRIH
RQLKNVMEKLVFDQDLVTGDDPVLSVLFDAAGTLRAGEFRRESFSLSPQGEGRLEVEFRLQSLADRGEWLVSNGVL
VARELSCLHVQLEETGDQKSSEHRVQLVVPGSCEGPQEASVGTGTFRFHCPCWEQELSLRLQDAPEEQKAPLS
ALPSGQVVRLVFPTSQEPLMRVELKKEAGLRELAVRLGFGPCAEEQAFLSRRKQVVAAALRQALQLDGDLEDEI
PVVAIMATGGGIRAMTSLYGQLAGLKEGLLDCVSYITGASGSTWALANLYEDPEWSQKDLAGPTELLKTQVTKN
KLGVLAPSQLQRYRQELAERARLGYPSCFTNLWALINEALLHDEPHDHKLSQREALSHGQNPLPIYCALNTKGQ
SLTTFEFGWCEFSPIYEVGFPKYGAFIPSEFGSEFFMGQLMKRLPESRICFLEGIWSNLYAANLQDSLYWASEP
SQFWRWRVNQANLDKEQVPLLKIEEPPSTAGRIAEFFTDLLTWRPLAQATHNFLRGLHFHKDYFQHPHFSTWKA
TTLDGLPNQLTPSEPHLCLLDVGYLINTSCLPLLQPTRDVLILSLDYNLHGAFQQLQLLGRFCQEQGIPFPPI
PSPEEQLPRECHTFSDPTCPGAPAVLHFPLVSDSFREYSAPGVRRTPEEAAAGEVNLSSSDSPYHYTKVTYSQE
DVDKLLHLTHYNVCNNQEQLLEALRQAVQRRRQRRPH

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FIGURE 1265

GGGGAGGTAGCCCGCAGTGCAGGGGCAGCGCGGCGCGGGGCCACCGACGGGACGCGGGCTCCGGGAACATGGCTCG
CTTCGCTCTGACTGTTGTCCGGCATGGAGAAACAAGATTTAACAAGGAGAAAATAATCCAAGGACAAGGAGTAGA
TGAACCTCTTTTCAGAAACTGGATTTAAACAAGCAGCAGCTGCTGGTATATTTCTGAATAATGTGAAGTTTACTCA
TGCTTTCTCCAGTGATCTCATGAGGACAAAGCAGACCATGCATGGAATTTTGGAGAGAAGCAAATTTTGCAAAGA
TATGACGGTAAAGTATGACTCAAGACTTCGGGAAAGGAAATACGGGGTTGTAGAAGGCAAAGCGCTAAGTGAGCT
GAGGGCCATGGCCAAAGCAGCCAGGGAAGAGTGCCCTGTGTTTACACCGCCCGGAGGAGAGACGCTGGACCAGGT
GAAAATGCGTGGAATAGACTTTTTTTGAATTTCTTTGTCAACTAATCCTGAAAGAAGCGGATCAAAAAGAACAGTT
TTCCCAAGGATCTCCAAGCAACTGTCTGGAACTTCTTTGGCAGAGATATTTCCTTTAGGAAAAAATCACAGCTC
TAAAGTTAATTCAGACAGCGGTATTCCAGGATTAGCAGCCAGTGTCCTTAGTTGTGAGTCACGGTGCTTACATGAG
AAGTCTGTTTGATTATTTTCTGACTGACCTTAAGTGTTCCTTACCAGCCACTCTGAGCAGATCTGAAC TTATGTC
AGTCACTCCCAATACAGGGATGAGTCTCTTTATCATAAACTTTGAGGAAGGAAGAGAAGTTAAACCAACGGTTCA
GTGTATTTGTATGAACCTACAGGATCATCTAAATGGACTGACTGAAACTCGCTAAAGGTTAAATCTGCATCAAAAT
CTAACCAATTTGAGCCTCTGAAGGGAGTGCCATTGGCTTTATTTACTTCTCTCCTCTGCTAGTCCTGATTTGGAA
ACAGTTAAAAGCCAATTTTTTAGCTCCAGTGGAACCATAGCCACATAAACTTTAATGGACAACCATATAGAATTA
ACTTATTTTGTCCAAGTACAGTTGGCATTTTCCAGAATAATTTTACCACCCTGCTAGATGTCATCTCTGGATTGC
ACATGGATGATGAAGGAACTCAGCATTGAAAGTTGGGGGATTAGTAACCTTGTTACAACGGTTTCTTTTTTCATT
TAGCCTATTTAATGGCTATTGGTAAGATACTGTATGTTTTTAGTATCTCATCCAGTGCTTAGAAGAAAGAATGG
TTTATAATTCCCAGTACAIGTTTATATTGACTGTGTTATATTTTTAAATCCTTTAAATAAAAAATCCTTATAAGT
TTATGTAAAGC

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FIGURE 1266

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRTKQTMHGILERSKF
CKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFPTPPGGETLDQVKMRGIDFFEFLCQLILKEADQK
EQFSQGSPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVSHGAYMRSFLDYFLTDLKCSLPATLSRSE
LMSVTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

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FIGURE 1267

TCCAGCTGGGTAGCCGGGGGAGCGCGCTGGGGGCTCCGCGAGTCGCTCGCCCTTGGTTTCTGGGGAAGCCTGGG
GGACGCGGCTGTGGCGGAGGCGCCCTGGGACTCAGGTCGCTGGAGCGTGGCACGCAGAGCCCCAGGCGCGGAGC
TGAGGCCGCGCGGCCGCGCTTGGCCCCAGCGGGCGTGGGACTGAGCAGTCTGCTGCCCCCGACATGTGACCCAG
CCCCGCCGCCCATGCGGGCTCCCGGCCGCCCGCCCTGCGGCCGCTGCCGCTGCCGCGCTGCTGCTGTTGCTCC
TGGCGGCGCCTTGGGGACGGGCAGTTCCTGTGTCTCTGGTGGTTTGCCTAAACCTGCAAACATCACCTTCTTAT
CCATCAACATGAAGAATGTCTACAATGGACTCCACCAGAGGGTCTTCAAGGAGTTAAAGTTACTTACACTGTGC
AGTATTTTCATATATGGGCAAAAGAAATGGCTGAATAAATCAGAATGCAGAAATATCAATAGAACCTACTGTGATC
TTTCTGCTGAAACTTCTGACTACGAACACCAGTATTATGCCAAAGTTAAGGCCATTTGGGGAACAAAGTGTTCOA
AATGGGCTGAAAGTGGACGGTTCTATCCTTTTTTAGAAACACAAATTGGCCCACCAGAGGTGGCACTGACTACAG
ATGAGAAGTCCATTTCTGTTGTCTGACAGCTCCAGAGAAGTGAAGAGAAATCCAGAAGACCTTCTGTTTCCA
TGCAACAAATATACTCCAATCTGAAGTATAACGTGTCTGTGTTGAATACTAAATCAAACAGAACGTGGTCCCAGT
GTGTGACCAACCACACGCTGGTGTCTACCTGGCTGGAGCCGAACACTCTTTACTGCGTACACGTGGAGTCCCTCG
TCCCAGGGCCCCCTCGCCGTGCTCAGCCTTCTGAGAAGCAGTGTGCCAGGACTTTGAAAGATCAATCATCAGAGT
TCAAGGCTAAATCATCTTCTGGTATGTTTTGCCCATATCTATTACCGTGTCTTTTTTCTGTGATGGGCTATT
CCATCTACCGATATATCCACGTTGGCAAAAGAGAAACACCCAGCAAATTTGATTTTGATTTATGGAAATGAATTTG
ACAAAAGATTCTTTGTGCTGCTGAAAAAATCGTGATTAACCTTTATCACCTCAATATCTCGGATGATTCTAAAA
TTTCTCATCAGGATATGAGTTTACTGGGAAAAAGCAGTGATGTATCCAGCCTTAATGATCCTCAGCCCAGCGGGA
ACCTGAGGCCCCCTCAGGAGGAAGAGGAGGTGAAACATTTAGGGTATGCTTCGCATTTGATGGAAATTTTTTGTG
ACTCTGAAGAAAACACGGAAGGTACTTCTTTACCCAGCAAGAGTCCCTCAGCAGAACAATACCCCCGGATAAAA
CAGTCATTGAATATGAATATGATGTCAGAACCACCTGACATTTGTGCGGGGCTGAAGAGCAGGAGCTCAGTTTGC
AGGAGGAGGTGTCCACACAAGGAACATTATTGGAGTGCAGGCAGCGTTGGCAGTCTTGGGCCCCGAAACGTTAC
AGTACTCATACACCCCTCAGCTCCAAGACTTAGACCCCTGGCGCAGGAGCACACAGACTCGGAGGAGGGGCCGG
AGGAAGAGCCATCGACGACCCTGGTCGACTGGGATCCCCAACTGGCAGGCTGTGTATTCTTCGCTGTCCAGCT
TCGACCAGGATTCAGAGGGCTGCGAGCCTTCTGAGGGGGATGGGCTCGGAGAGGAGGGTCTTCTATCTAGACTCT
ATGAGGAGCCGGCTCCAGACAGGCCACCAGGAGAAAATGAAACCTATCTCATGCAATTCATGGAGGAATGGGGGT
TATATGTGCAGATGGAAAACTGATGCCAACACTTCCTTTTGCTTTTGTTCCTGTGCAAACAAGTGAGTCACCC
CTTTGATCCCAGCCATAAAGTACCTGGGATGAAAGAAGTTTTTCCAGTTTGTCTGAGTGTCTGTGAGAATTACTTA
TTTCTTTTCTCTATTCTCATAGCACGTGTGTGATTGGTTTCATGCATGTAGGTCTCTTAACAATGATGGTGGGCCT
CTGGAGTCCAGGGGCTGGCCGGTTGTTCTATGCAGAGAAAGCAGTCAATAAATGTTTGCCAGACTGGGTGCAGAA
TTTATTAGGTGGGTGTACTCTGGCCTCTTGGTTTATTATTTCAAACAAGCACACTTGTACAATTATTTCTGG
GTACTTCCCATATGCACATAGCACTGTAAAAAATATTTCCCAAAGATCACTCATTTTATAAATACCACTTTTTCA
GAATTGGGTTTATTGCGAGCAGGAGGAGATACTTAAACATGCACATATAACCAGGTGGTGGTAAGTTGGTCACA
TGTGAAAACCTCAACTATTTAATCATCATGATTATTTTGTAGTGAATACATCAGGCACAGACCTTCATGATAT
CACACACTCTTGGCTACTTTAAGAGGCCATCTTTAATACTTTATGAGTAGTTCTGGAGTGTAACATAAACGAGT
ATTCTTTTGTAGTCAGAAAAGTGTCTCTCAATAATTTAGTAGGGGCTTATTGTCTCTCAAACTAACCTAAAAG
AAAATGACACATTTTATAATAGAATATTACATTTATTTCTGGAAGTGTGTTTTCAAAAAGATATTTACATAGTCT
GTAAACTAGAAAAGTGTAGGTAAAGCTCTAGGTTACTGTGTTACTATTATAATATTAAACATTCGAATAGGCAGT
CGTTCAAAGACTCTTTGGAATATCTATGAATGAATATCCTCTATTCTTATAATATTAAACCCATAAGTAAATAT
AGGACATACAAGAGAAATGAGTTAAATGACTATGTAAGGGAGAGTTTATTAAAAATTTGATGAAATTTACTGTAGG
AACTAAACTATGCCATAAAACAATAGCTTTCTAGTTTCAATTTCCAGTAACTGTTCCCATCTCCTTTACCACTTGTT
AAGAAAATTAATTTCTTCAGTCACGCTGCTTTAAATGGGACAAAATCTATTAAGTTGAACCATATATAATTGTG
GATATTTGGCTGTTTTTAATCTGACAAGCAGTAACTTCATATGGTTTTGCCCTTAATATATATTTGTTTTAGTCATG
AACTCATAATCCATTGATGCTCTTTTCATGAGAAGAGATATGACCCATATTTCTTATTGATATTATTGGTACAGG
CAGACAACCTGGTAGGAGAGATGGATTCTGGGGTCATGACCTTTCTGTGATTATCCGCAAATGCAAACAGTTTCA
GATCTAATGGTTTTAATTTAGGGAGTAATTATATTAATCAGAGTGTCTGTTATTCTCAATCTTTATAGAAACGAT
TCTGCTGGTTTTGAAGAACAGATGTATTACACTAACTGTAAAGTAGTTCAAGAGTGAGAAAGAATAAATTGTTA
TTAAGAGCAAAAAGAAAAATAAAGTGAATGATGATA

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FIGURE 1268

MRAPGRPALRPLPLPPLLLLLLLAAPWGRAVPCVSGGLPKPANITFLSINMKNVLQWTPPEGLQGKVTYTVQYFI
YGQKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPPLETQIGPPEVALTTDEKS
ISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQCVTNHTLVLTWLEPNTLYCVHVESFVPGP
PRRAQPSEKQCARTLKDQSSEFKAKIIFWYVLPISITVFLFSVMGYSIYRYIHVGKEKHPANLILYIGNEFDKRF
FVPAEKIVINFITLNI SDDSKISHQDMSLLGKSSDVSSLNDPQPSGNLRPPQEEEEVKHLGYASHLMEIFCDSEE
NTEGTSFTQQESLSRTIPDPKTVIEYDYDVRTTDICAGPEEQELSLQEEVSTQGTLLSQAALAVLGPQTLQYSY
TPQLQDLDPLAQEHTDSEEGPEEEPSTTLVDWDPQTGRLCIPSLSSFDQDSEGCEPSEGDGLGEEGLLSRLYEPP
APDRPPGENETYLMQFMEEWGLYVQMEN

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FIGURE 1269

AGCGCGCGACTTTTTGAAAGCCAGGAGGGTTCGAATTGCAACGGCAGCTGCCGGGCGTATGTGTTGGTGCTAGAG
GCAGCTGCAGGGTCTCGCTGGGGGCCGCTCGGGACCAATTTTGAAGAGGTACTTGGCCACGACTTATTTTCACCT
CCGACCTTTTCCTTCCAGGCGGTGAGACTCTGGACTGAGAGTGGCTTTTACAATGGAAGGGATCAGTAATTTCAAG
ACACCAAGCAAATTATCAGAAAAAAGAAATCTGTATTATGTTCAACTCCAACATAAAATATCCCGGCCTCTCCG
TTTATGCAGAAGCTTGGCTTTGGTACTGGGGTAAATGTGTACCTAATGAAAAGATCTCCAAGAGGTTTGTCTCAT
TCTCCTTGGGCTGTAAAAAAGATTAATCCTATATGTAATGATCATTATCGAAGTGTGTATCAAAAGAGACTAATG
GATGAAGCTAAGATTTTGAAGCCCTTCATCATCCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGAT
GGCAGTCTGTGTCTTGCTATGGAATATGGAGGTGAAAAGTCTCTAAATGACTTAATAGAAGAACGATATAAAGCC
AGCCAAGATCCTTTTCCAGCAGCCATAATTTTAAAAGTTGCTTTGAATATGGCAAGAGGGTTAAAGTATCTGCAC
CAAGAAAAGAACTGCTTCATGGAGACATAAAGTCTTCAAATGTTGTAATTAAAGGCGATTTTGAACAATTA
ATCTGTGATGTAGGAGTCTCTCTACCACTGGATGAAAATATGACTGTGACTGACCCTGAGGCTTGTTACATTGGC
ACAGAGCCATGGAAACCCAAAGAAGCTGTGGAGGAGAATGGTGTTATTACTGACAAGGCAGACATATTTGCCTTT
GGCCTTACTTTGTGGGAAATGATGACTTTATCGATTCCACACATTAATCTTCAAATGATGATGATGATGAAGAT
AAAACCTTTGATGAAAGTGATTTTGATGATGAAGCATACTATGCAGCGTTGGGAACTAGGCCACCTATTAATATG
GAAGAACTGGATGAATCATAACCAGAAAGTAATTGAACTCTTCTCTGTATGCACTAATGAAGACCCTAAAGATCGT
CCTTCTGCTGCACACATTGTTGAAGCTCTGGAAACAGATGTCTTAGTGATCATCTCAGCTGAAGTGTGGCTTGCCT
AAATAACTGTTTATTCCAAAATATTTACATAGTTACTATCAGTAGTTATTAGACTCTAAAATTGGCATATTTGAG
GACCATAGTTTCTTGTTAACATATGGATAACTATTTCTAATATGAAATATGCTTATATTGGCTATAAGCACTTGG
AATTGTACTGGGTTTTCTGTAAAGTTTTAGAACTAGCTACATAAGTACTTTGATACTGCTCATGCTGACTTAAA
ACACTAGCAGTAAAACGCTGTAAACTGTAACATTAAATTGAATGACCATTACTTTTATTAATGATCTTTCTTAAA
TATTCTATATTTTAAATGGATCTACTGACATTAGCACTTTGTACAGTACAAAAATAAAGTCTACATTTGTTTAAAC
ACTGAACCTTTTGCTGATGTGTTTATCAAATGATAACTGGAAGCTGAGGAGAATATGCCTCAAAAAGAGTAGCTC
CTTGGATACTTCAGACTCTGGTTACAGATTGTCTTGATCTCTTGGATCTCCTCAGATCTTTGGTTTTTGCTTTAA
TTTATTAAATGTATTTTCCATACTGAGTTTAAAATTTATTAATTTGTACCTTAAGCATTTCCAGCTGTGTA
ACAATAAAACTCAAATAGGATGATAAAGAATAAAGGACACTTTGGGTACCAGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1270

MEGISNEFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPRGLSHSPWAVKKINPICNDHYR
SVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGG EKSLNDLIEERYKASQDPFPAAIILKVALNM
ARGLKYLHQEKLLHGD IKSSNVVIK GDFETIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEAVEENG VIT
DKADIFAFGLTLWEMMTLSIPHINLSNDDDDDEDKTFDESDFDDEAYYAALGTRPPINMEELDESYQKVIELFSVC
TNEDPKDRPSAAHIVEALETDV

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FIGURE 1271A

[illegible]

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FIGURE 1271B

GAGTATTTTTATTTTATGTATATACTATAACAACATGTTCTTTTTTGTACAGCTATGCACTGTAAATGCAGCCT
TCTTTTCAAACTGCTAAATTTTTCTTAATCAAGAATATTCAAATGTAATTATGAGGTGAAACAATTATTGTACA
CTAACATATTTAGAAGCTGAACCTTACTGCTTATATATATTTTGATTGTAAAAACAAAAAGACAGTGTGTGTGTCTG
TTGAGTGCAACAAGAGCAAAATGATGCTTTCCGCACATCCATCCCTTAGGTGAGCTTCAATCTAAGCATCTTGTC
AAGAAATATCCTAGTCCCCTAAAGGTATTAACCACTTCTGCGATATTTTCCACATTTTCTTGTCGCTTGTTTT
CTTTGAAGTTTTATACACTGGATTTGTTAGGGGAATGAAATTTTCTCATCTAAAATTTTCTAGAAGATATCATG
ATTTTATGTAAAGTCTCTCAATGGGTAAACCATTAAAGAAATGTTTTATTTTCTCTATCAACAGTAGTTTTGAAAC
TAGAAGTCAAAAATCTTTTTAAATGCTGTTTTGTTTTAATTTTGTGATTTTAATTTGATACAAAATGCTGAGG
TAATAATTATAGTATGATTTTTACAATAATTAATGTGTGTCTGAAGACTATCTTTGAAGCCAGTATTTCTTTCCC
TTGGCAGAGTATGACGATGGTATTTATCTGTATTTTTACAGTTATGCATCCTGTATAAATACTGATATTTTATT
CCTTTGTTTTACTAAAGAGACATATTTATCAGTTGCAGATAGCCTATTTATTATAAATTATGAGATGATGAAAATA
ATAAAGCCAGTGGAATTTTCTACCTAGGATGCATGACAATTGTCAGGTTGGAGTGTAAGTGCTTCATTTGGGAA
ATTCAGCTTTTGCAGAAGCAGTGTTTCTACTTGCCTAGCATGGCCTCTGACGTGACCATGGTGTTGTTCTTGAT
GACATTGCTTCTGCTAAATTTAATAAAAACTTCAGAAAAACCTCCATTTTGATCATCAGGATTTTCTCTGAGTGT
GGAGTCCCTGGAATGGAATTCAGTAACATTTGGAGTGTGTATTCAAGTTTCTAAATTGAGATTTCGATTACTGTTT
GGCTGACATGACTTTTCTGGAAGACATGATACACCTACTACTCAATTGTTCTTTTCTTTCTCTCGCCCAACACG
ATCTTGTAAGATGGATTTTACCCCCAGGCCAATGCAGCTAATTTTGATAGCTGCATTCATTTATCACCAGCATAT
TGTGTTCTGAGTGAATCCACTGTTTGTCTGTGCGATGCTTGCTTGATTTTTTGGCTTCTTATTTCTAAGTAGAT
AGAAAGCAATAAAAAATACTATGAAATGAAAGAACTTGTTACAGGTTCTGCGTTACAACAGTAACACATCTTTAA
TCCGCCTAATCTTGTGTTGTTCTGTAGGTTAAATGCAGGTATTTTAACTGTGTGAACGCCAACTAAAGTTTACAG
TCTTTCTTTCTGAATTTTGAGTATCTTCTGTTGTAGAATAATAATAAAAAAGACTATTAAGAGCAATAAATTATTT
TAAGAAATCGAGATTTAGTAAATCCTATTATGTGTTCAAGGACCACATGTGTTCTCTATTTTGCCTTTAAATTTT
TGTGAACCAATTTTAAATACATTCTCCTTTTTTGCCCTGGATTGTTGACATGAGTGGAATACTTGGTTTTCTTTCT
TACTTATCAAAAGACAGCACTACAGATATCATATTGAGGATTAATTTATCCCCCTACCCCCAGCCTGACAAATA
TTGTTACCATGAAGATAGTTTTTCTCAATGGACTTCAAATTCAGCATCTAGAATTAGTGGAGCTTTTGTATCTTCTG
CAGACACTGTGGGTAGCCCATCAAAATGTAAGCTGTGCTCCTCTCATTTTTATTTTTATTTTTTGGGAGAGAAT
ATTTCAAATGAACACGTGCACCCCATCATCACTGGAGGCAAATTCAGCATAGATCTGTAGGATTTTTAGAAGAC
CGTGGGCCATTGCCTTCATGCCGTGGTAAGTACCACATCTACAATTTTGGTAACCGAAGTGGTGCTTTAGTAATG
TGGATTTTTTTCTTTTTTAAAGAGATGTAGCAAAATAATTCTTCCAGTGCAACAAAATCAATTTTTTGCTAAAC
GACTCCAAGAACAACAGTTGGGCTGTCAACATTCAAAGCAGCAGAGAGGGAACCTTGCATATTGGGGTATGATG
TTTGGGTGAGTTGATAAAAGGAAACCTTTTCATGCCCTTAGATGTGAGCTTCCAGTAGGTAATGATTATGTGTCC
TTTCTTGATGGCTGTAATGAGAACTTCAATCACTGTAGTCTAAGACCTGATCTATAGATACCTAGAATAGCCATG
TACTATAATGTGATGATTCTAAATTTGTACCTATGTGACAGACATTTTCAATAATGTGAAGTCTGATTTGATGG
AGCTACTTTAAGATTTGTAGGTGAAAGTGAATACTGTTGGTTGAACTATGCTGAAGAGGGAAAGTGAGCGATTA
GTTGAGCCCTTGCCGGGCCTTTTTTCCACCTGCCAATTCTACATGATTGTTGTGGTTTTATTTCATTGTATGAAA
ATTCCTGTGATTTTTTTTTAAATGTGCAGTACACATCAGCCTCACTGAGCTAATAAAGGGAAACGAATGTTTCAA
TCT

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FIGURE 1272

MAWDMCNQDSESVWSDIECAALVGEDQPLCPDLPELDLSELDVNDLDTDSFLGGLKWCSQSEIISNQYNNEPSN
IFEKIDEENEANLLAVLTETLDSLVPDEDGLPSFDALTDGDVTTDNEASPSSMPDGTPPPQEAEEPSLLKKLLLA
PANTQLSYNECSGLSTQNHANHNHRIRTNPAIVKTENSWSNKAKSICQQQKPQRRPCSELLKYLTNDPPHTKP
TENRNSSRDKCTSKKKSHTQSQSQHLQAKPTTSLPLTPESPNDPKGSPFENKTIERTLSVELSGTAGLTPPTTP
PHKANQDNPFRA SPKLKSSCKTVVPPPSKKPRYSESSGTQGNNSTKKGPEQSELYAQLSKSSVLTGGHEERKTKR
PSLRLFGDHDYQCSINSKTEILINISQELQDSRQLENKDVSSDWQGQICSSTDSDQCYLRETLEASKQVSPCSTR
KQLQDQEIRAELENKHFGHPSQAVFDDEADKTGELRDSDFSNEQFSKLPMFINSGLAMDGLFDDSEDES DKLSYPW
DGTQSYSLFNVSPSCSSFNSPCRD SVSPPKSLFSQRPQMRSRSRFSRHRSCSRSPYSR SRSPGSRSSSRSC
YYYESSHYRHRTHRNSPLYVR SRSPYSRRPRYDSYEEYQHERLKREERYRREYEKRESERAKQ RERQRQKAIEE
RRVIYVGKIRPD TTRTELDRFEVFG EIEECTVNLRDDGDSYGFITYRYTCDAFAALENGYTLRRSNETDFELYF
CGRKQFFKSNYADLDSNSDDFD PASTKSKYDSLDFDSLLKEAQRSLRR

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FIGURE 1273

GCGCGCCGGCCTGAGAGCCCTGTGGACAACCTCGTCATTGTGTCAGGCACAGAGCGGTAGACCCTGCTTCTCTAAGT
GGGCAGCGGACAGCGGCACGCACATTTACCTGTCCCGCAGACAACAGCACCATCTGCTTGGGAGAACCCTCTCC
CTTCTCTGAGAAAAGAAAGATGTCGAATGGGTATTCCACAGACGAGAATTTCCGCTATCTCATCTCGTGCTTCAGG
GCCAGGGTGAAAATGTACATCCAGGTGGAGCCTGTGCTGGACTACCTGACCTTTCTGCTGCAGAGGTGAAGGAG
CAGATTGAGAGGACAGTCGCCACCTCCGGGAACATGCAGGCAGTTGAACTGCTGCTGAGCACCTTGGAGAAGGGA
GTCTGGCACCTTGGTTGGACTCGGGAATTCGTGGAGGCCCTCCGGAGAACCAGCAGCCCTCTGGCCGCCGCTAC
ATGAACCCTGAGCTCACGGACTTGCCCTCTCCATCGTTTGAGAACGCTCATGATGAATATCTCCAACCTGCTGAAC
CTCCTTCAGCCCACTCTGGTGGACAAGCTTCTAGTTAGAGACGCTTTGGATAAGTGCATGGAGGAGGAACCTGTTG
ACAATTGAAGACAGAAACCGGATTGCTGCTGCAGAAAACAATGGAATGAATCAGGTGTAAGAGAGCTACTAAAA
AGGATTGTGCAGAAAGAAAACCTGGTTCTCTGCATTTCTGAATGTTCTTCGTCAAACAGGAAACAATGAACTTGTC
CAAGAGTTAACAGGCTCTGATTGCTCAGAAAGCAATGCAGAGATTGAGAATTTATCACAAGTTGATGGTCTCTCAA
GTGGAAGAGCAACTTCTTTCAACCACAGTTTACGCCAAATCTGGAGAAGGAGGTCTGGGGCATGGAGAATAACTCA
TCAGAATCATCTTTTGCAGATTCTTCTGTAGTTTTCAGAATCAGACACAAGTTTGGCAGAAGGAAGTGTGAGCTGC
TTAGATGAAAGTCTTGGACATAACAGCAACATGGGCAGTGATTGAGGCACCATGGGAAGTGATTGAGATGAAGAG
AATGTGGCAGCAAGAGCATCCCCGGAGCCAGAACTCCAGCTCAGGCCTTACCAAATGGAAGTTGCCAGCCAGCC
TTGGAAGGGAAGAATATCATCATCTGCCTCCCTACAGGGAGTGGAACCAACAGAGTGGCTGTTTACATTGCCAAG
GATCACTTAGACAAGAAGAAAAAGCATCTGAGCCTGGAAGTTATAGTTCTTGTCAATAAGGTACTGCTAGTT
GAACAGCTCTTCCGCAAGGAGTTCCAACCATTTTTGAAGAAATGGTATCGTGTATTGGATTAAAGTGGTGATACC
CAACTGAAAATATCATTTCCAGAAGTTGTCAAGTCTGTGATATTATTATCAGTACAGCTCAAATCCTTGAAAC
TCCCTCTTAAACTTGGAAAATGGAGAAGATGCTGGTGTTCATTTGTCAGACTTTTCCCTCATTATCATTGATGAA
TGTCATCACACCAACAAAGAAGCAGTGATAATAACATCATGAGGCATTATTGATGCAGAAGTTGAAAAACAAT
AGACTCAAGAAAGAAAACAAACCAGTGATTCCCCTTCCCTCAGATACTGGGACTAACAGCTTCACCTGGTGTGGGA
GGGGCCACGAAGCAAGCCAAAGCTGAAGAACACATTTTAAACTATGTGCCAATCTTGATGCATTTACTATTAA
ACTGTTAAAGAAAACCTTGATCAACTGAAAAACCAATACAGGAGCCATGCAAGAAGTTTGCCATTGCAGATGCA
ACCAGAGAAGATCCATTTAAAGAGAAAACCTTCTAGAAAATAATGACAAGGATTCAAACCTTATTGTCAAATGAGTCCA
ATGTGAGATTTTGGAACTCAACCCTATGAACAATGGGCCATTCAAATGGAAAAAAGCTGCAAAAAAAGGAAAT
CGCAAAGAACGTGTTTGTGCAGAACATTTGAGGAAGTACAATGAGGCCCTACAAATTAATGACACAATTCGAATG
ATAGATGCGTATACTCATCTTGAAACTTTCTATAATGAAGAGAAAGATAAGAAGTTTGAGTGCATAGAAGATGAT
AGTGATGAGGGTGGTGATGATGAGTATTGTGATGGTGATGAAGATGAGGATGATTTAAAGAAACCTTTGAACTG
GATGAAACAGATAGATTTCTCATGACTTTATTTTTTGAACAATAAAATGTTGAAAAGGCTGGCTGAAAACCCA
GAATATGAAAATGAAAAGCTGACCAATTAAGAAATACCATAATGGAGCAATATACTAGGACTGAGGAATCAGCA
CGAGGAATAATCTTTACAAAAACAGCAGAGTGCATATGCGCTTTCCAGTGGATTACTGAAAATGAAAATTT
GCTGAAGTAGGAGTCAAAGCCCACCATCTGATTGGAGCTGGACACAGCAGTGAGTTCAAACCCATGACACAGAAT
GAACAAAAAGAAGTCATTAGTAAATTTGCACTGGAAAAATCAATCTGCTTATCGCTACCACAGTGGCAGAAGAA
GGTCTGGATATTAAAGAATGTAACATTGTTATCCGTTATGGTCTCGTCACCAATGAAATAGCCATGGTCCAGGCC
CGTGGTCGAGCCAGAGCTGATGAGAGCACCTACGTCCTGGTTGCTCAGAGTGGTTCAGGAGTTATCGAACATGAG
ACAGTTAATGATTTCCGAGAGAAGATGATGTATAAAGCTATACATTGTGTTCAAATATGAAACCAGAGGAGTAT
GCTCATAAGATTTTGGAAATTACAGATGCAAAGTATAATGGAAAAGAAAATGAAAACCAAGAGAAATATTGCCAAG
CATTACAAGAATAACCCATCACTAATAACTTTCTTTGCAAAAACTGCAGTGTGCTAGCCTGTTCTGGGGAAGAT
ATCCATGTAATTGAGAAAATGCATCACGTCAATATGACCCCAAGAAATCAAGGAACCTTTACATTGTAAGAGAAAAC
AAAGCACTGCAAAAAGAGTGTCCGACTATCAAATAAATGGTGAAATCATCTGCAAATGTGGCCAGGCTTGGGGA
ACAATGATGGTGCACAAAGGCTTAGATTTGCCTTGTCTCAAAAATAAGGAATTTTGTAGTGGTTTTCAAAAATAAT
TCAACAAAGAAACAATACAAAAGTGGGTAGAATTACCTATCACATTTCCCAATCTTGACTATTGAGAAATGCTGT
TTATTTAGTGATGAGGATTAGCACTTGATTGAAGATTCTTTTAAATACTATCAGTTAAACATTTAATATGATTA
TGATTAATGTATTATTATGCTACAGAACTGACATAAGAATCAATAAAATGATTGTTTTACTCTGAAAAA
AAAA

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FIGURE 1274

MSNGYSTDENFRYLISCFRARVKMYIQVEPVLDTFLPAEVKEQIQRTVATSGNMQAVELLSTLEKGVWHLGW
TREFVEALRRITGSPLAARYMNPETDLPSPSFENAHDEYLQLLNLLQPTLVDKLLVRDVLDKMEEELLTIEDRN
RIAAAENNGNESGVRELLKRIVQKENWFS AFLNVLRQTGNNELVQELTGSDCSESNAEIEENLSQVDGPQVEEQLL
STTVQPNLEKEVWGMENNSSESSFADSSVSESDTSLAEGSVSCLDESLGHNSNMGSDSGTMGSDSDEENVAARA
SPEPELQLRPYQMEVAQPALEGKNIICLPTGSGKTRVAVYIAKDHLDDKKKASEPGKVIVLVNKVLLVEQLFRK
EFQPFLKKWYRVIGLSGDTQLKISFPEVVKSCDIIISTAQILENSLLNLENGEDAGVQLSDFSLIIIDECHHTNK
EAVYNNIMRHYLMQKLKNNRLKKENKPVIPLPQILGLTASPGVGGATKQAKAEHILKLCANLDAFTIKTVKENL
DQLKNQIQEPCKKFAIADATREDPFKEKLEIMTRIQTTCQMSPMDFGTQPYEQWAIQMEKKAACKGNRKERV
AEHLRKYNEALQINDTIRMIDAYTHLETIFYNEEKDKKFAVIEDDSDEGGDDEYCDGDEDEDDLKKPLKLDDETRF
LMTLFFENNKMLKRLAENPEYENEKLTCLRNTIMEQYTRTEESARGIIFTKTRQSAYALSQWITENEKFAEVGVK
AHHLIGAGHSSEFKPMTQNEQKEVISKFRTGKINLLIATTVAEEGLDIKECNIVIRYGLVTNETIAMVQARGRARA
DESTYVLVAHSGSGVIEHETVNDFREKMMYKAHCVQNMKPEEYAHKILELQMQSIMEKKMKTKRNI AKHYKNNP
SLITFLCKNC SVLACSGEDIHVIEKMHVNMTPEFKELYIVRENKALQKKCADYQINGEIIICKCGQAWGTMMVHK
GLDLPCLKIRNFVVVFKNNSTKKQYKKWVELPITFPNLDYSECCLFSD

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FIGURE 1275

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCCGCTGCCGTCCCTGCTGCCTCATGGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCAGAAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTTAATGTTTTGCGATTAATTCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAATATATCGGGTTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTTACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTTCTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTGTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGTTGTCCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTCCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAAGACTCTCTTATGATAGAGTGTTACGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCCTGGAAGCATATCTTCAGTGTCCTTGAACCTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGCACAGGTTGTAAGTCCAGGATTTAGATAAAAAAGAAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCTTAGTGTTTTAGAGAAATCAAGAATTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGATTAAATACTTTTTCAATGAACTGTATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAAAA

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FIGURE 1276

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVLSGDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLSVMEVNNGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRRF
ELLCSPLEFNKLEAIRGLLDQNGFTADDINKVVLCCGSSRIPKLQQLIKDLFPVELLSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSTPLPARRQHTLQAPGSISSVCELEYESDGKN
SAKEETKFAQVVLQDLDDKKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1277

ACCAACGCCTACTCCCCGGTGCAGCAGGGAGTCATCATCAAAAGGAAGAGTGGGGAGATCCCATGCCCTTGCC
GTGGAGGCGTTTGCCGCTCACCTGAGCTACATCTGTAGATACGATGACAAAATACAGCAAGTATTTTCATTTCTCAT
AAACCAAACAAGACCTGGCAGCAGGTGTTCTGGTTGCGCCATCAGCATCGCCATCAACAATGCCTACATCCTGTAC
AAAATGTCAGACGCCTACCACGTGGAGAGGTACAGCCGGGCGCAGTTTGGAGAGAGACTCGTCAGAGAGCTGCTG
GGCTTGGAGGATGCCTCTCCGACCCACTGATGCTGGGGGCGCAGGACTCGGTCAAGGGAGGGGCAAGAGGAGGAG
GAGAGCCTGCCGTTCCAACCTGCCCATCAGAGACCCGGACACGGCCTGGTGTGTGGCTTGCTGCCTGGGAGGGAT
GCACAGGGCCTCTGGAGGGACAGGATGGACCTGGTCAGAGGACGGTTGCTGTCCTCATTTCATTCCAAGAAGAG
CATGTCCTCCCTCGAGAAACAGTGCCGCGGTGTGATGAGCACTTACACCCACGTTCTCAAGGGCAGATTCTCTC
ATGACATCCGTGGAGCTTGGCAGGCAGCGTGGACTGGTGACTGTGAAGGAAGGCCCCCGTGGTAGAATGAGCTGG
AGCACGCTCTAAGAGAGATGCCTGCTTCCTAAAGATCTACAGCAATCTGGGACGTGGTTCAAGTTCAAGACTTGA
AGGAAGCAAAGACGCCCTGCATGGTTACAATGGCTCAGGTGTCAGGGGAGGCGGAGGGTTTTCCAGCATTGTC
TCATGCCAGCACCTTTGAACCGGTCTCTTAGAAGAAGACACACATCCTGGGTGTACAGTGGTGAAATGGGGAGTG
GGTGCCCATTTGAAAAACGAGGCATTCTGCTCATTCCCTCTGCTTAGCTGGTGGGCAGGGGAGAGAGGGAAAT
GCCAAAACTTGGAGTGAAGGATGATGCTATTTTTTATTTTTTAAATATATCTTCAGGTTATTTTCTTACTGTTGC
TTCAGATCTAATGTAAAAGGCAGATGTCCCTCCTCTCCACCCCCGACGCTGACCCCGGCCTCAGTCACGGCTCT
TTGCATGATCACAGTTCTGTGTTCTGGCCTGTGGCAGGGCCGGGAAGGGCCGCTGGCTTCCGAACAGACGTGGTT
GCTCTCCACGAGGCGCATGGGGAGCCCGCGGGCCCTAAGCTTTGTGCGCAGATGTCATCATTGGCAGAATTACTTG
TCTTGAAAAATAAGTAGCATTGCTGAAACACACAACCGAATTCTCTACGATGGCCATTGCTCATTGTCTTTCT
CTGTGTGTAGTGAGTGACCCTGGCAGTGTTTGCTGCTCAGAGTGGCCCCCTCAGAACAACAGGGCTGGCCTTGGA
AAAACCCCAAAACAGGACTGTGGTGACAACCTCTGGTCAGGTGTGATTTGACATGAGGGCCGGAGGCGGTTGCTGA
CGGCAGGACTGGAGAGGCTGCGTGCCCGGCACTGGCAGCGAGGCTCGTGTGTCCCCCAGGCAGATCTGGGCACTT
TCCCAACCCAGGTTTTATGCGTCTCCAGGGAAGCCTCGGTGCCAGAGTGGTGGGCAGATCTGACCATCCCCACAGA
CCAGAAACAAGGAATTTCTGGGATTACCCAGTCCCCCTTCAACCCAGTTGATGTAACCACTCATTTTTTTACAAA
TACAGAATCTATTCTACTCAGGCTATGGGCCTCGTCCCTCACTCAGTTATTGCGAGTGTTGCTGTCCGCATGCTCC
GGGCCCCACGTGGCTCCTGTGCTCTAGATCATGGTGACTCCCCCGCCCTGTGGTTGGAATCGATGCCACGGATTG
CAGGCCAAATTTAGATCGTGTTTCCAAACACCCCTTGCTGTGCCCTTTAATGGGATTGAAAGCACTTTTACCACA
TGGAGAAATATATTTTTTAAATTTGTGATGCTTTTCTACAAGGTCCACTATTCCTGAGTTTAAATGTGTTTCCAACAC
TTAAGGAGACTCTAATGAAAGCTGATGAATTTTCTTTTCTGTCCAAACAAGTAAAATAAAAATAAAAGTCT

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FIGURE 1278

MTNTASISFLINQTRPGSRCSGSPSASPSTMPTSCCKCQTPTTWRGTAGRSLEERDSSESCWAWRMPLRPTDAGGA
GLGQGRGKRRRRACRSNLPIRDPTAWCVACCLGGMHRASGGTGWTWSEHGCCPHLHKKSMSSLEKQCRRRCDEH
LHPRSQGQILS

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FIGURE 1279

GCTTCACGCTAAAGCCCCAGAGCCCCAGCGGCAGCCGCGGTAGCGGAGAAGACTGGAGCTCCGAGGAGCTGCAT
CTGCGGCAACCTGTGCGCTGACGCTACGTGCCTCCTGGCTCCGACGTAGCTCGCAGCTCCCCAGTCTCACTCCAT
TCCTTCCCCACCTGGCGCGCACCTGCTCAAGACCAGGGTCTCTGCCAAGCGCTAGGAGGGCGCGTGCCAGGGGCGC
TAGGGAACCTGCGGAGCGCGCGCGCCATGGGGCGCGCGCTGGGGCCGGGGTCTCCTGCCGCGGTGGCTGCGGCTT
TTCCAGATTGCTGGCATGGTGCTTCTGCTGGCCCTGAGTCCGCAGGCACCCGGTTCCTGGGGGGCTGAAGCAGT
GTGGACCGCGTACCTCAACGTGTCTGGCGGGTTCCGCACACGGGAGTGAACCGTACGGTGTGGGAGCTGAGCGA
GGAGGGCGTGTACGGCCAGGACTCGCCGCTGGAGCCTGTGGCTGGGGTCTGGTACCGCCCGACGGGCCCCGGGC
GCTTAACGCCTGTAACCCGCACACGAATTTACGGTGCCACGGTTTGGGGAAGCACCGTGCAAGTCTCTTGGTT
GGCCCTCATCCAACGCGGCGGGGGCTGCACCTTCGCAGACAAGATCCATCTGGCTTATGAGAGAGGGGCGTCTGG
AGCCGTCATCTTTAACTTCCCCGGGACCCGCAATGAGGTCAATCCCATGTCTCACCCGGGTGCAGTAGACATTGT
TGCAATCATGATCGGCAATCTGAAAGGCACAAAAATTCTGCAATCTATTCAAAGAGGCATACAAGTGACAATGGT
CATAGAAGTAGGGAAAAACATGGCCCTTGGGTGAATCACTATTCAATTTTTTTCGTTTCTGTGCTCTTTTTTAT
TATTACGGCGGCAACTGTGGGCTATTTTATCTTTTATTCTGCTCGAAGGCTACGGAATGCAAGAGCTCAAAGCAG
GAAGCAGAGGCAATTAAAGGCAGATGCTAAAAAAGCTATTGGAAGGCTTCAACTACGCACACTGAAACAAGGAGA
CAAGGAAATTGGCCCTGATGGAGATAGTTGTGCTGTGTGCATTGAATTGTATAAACCAATGATTTGGTACGCAT
CTTAACGTGCAACCATATTTTCCATAAGACATGTGTTGACCATGGCTGTTAGAACACAGGACTTGCCCCATGTG
CAAATGTGACATACTCAAAGCTTTGGGAATTGAGGTGGATGTTGAAGATGGATCAGTGTCTTTACAAGTCCCTGT
ATCCAATGAAATATCTAATAGTGCTCTCTCCCATGAAGAGGATAATCGCAGCGAGACCGCATCATCTGGATATGC
TTCAGTACAGGGAACGGATGAACCGCTCTGGAGGAACACGTGCAGTCAACAAATGAAAGTCTACAGCTGGTAAA
CCATGAAGCAAATTCTGTGGCAGTGGATGTTATTCTCATGTTGACAACCCACCTTTGAAGAAGACGAAACTCC
TAATCAAGAGACTGCTGTTTCGAGAAATTAAATCTTAAATCTGTGTAAATAGAAAACCTGAACCATTAGTAATAA
CAGAACTGCCAATCAGGGCCTAGTTTCTATTAATAAAATTGGATAAAATTTAATAAAATAAGAGTGATACTGAAAGT
GCTCAGATGACTAATATTATGCTATAGTTAAATGGCTTAAAAATATTTAACCTGTTAACTTTTTTCCACAAACTCA
TTATAATATTTTTCATAGGCAAGTTTCTCTCAGTAGTGATAACAACATTTTTTAGACATTCAAACCTGTCTTCAA
GAAGTCACGTTTTTCAATTTATAACAATTTTCTTATAAAAAACATGTTGCTTTTAAATGTGGAGTAGCTGTAATCA
CTTTATTTTTATGATAGTATCTTAATGAAAAATACTACTTCTTTAGCTTGGGCTACATGTGTGAGGGTTTTTCTCC
AGGTGCTTATATTGATCTGGAATTGTAATGTAAAAAGCAATGCAAACCTTAGGCGAGTACTTCTTGAAATGTCTAT
TTAAGCTGCTTTAAGTTAATAGAAAAGATTAAAGCAAAATATTCAATTTTTACTTTTTCTTATTTTTTAAATTAGG
CTGAATGTACTTCAATGTGATTTGTCAACCATAGTTTATCAGAGATTATGGACTTAATTGATTGGTATATTAGTGA
CATCAACTTGACACAAGATTAGACAAAAAATTCCTTACAAAAATACTGTGTAACATTTTCTCAAACCTGTGGGAT
TTTTCAAAGCTCAGTATATGAATCATCATACTGTTTGAAATTGCTAATGACAGAGTAAGTAACACTAATATTGG
TCATTGATCTTCGTTTCAATGATTTAGTCTACAGAAAAAAATGTTCTGTAAAATTAGTCTGTTGAAAATGTTTTCC
AAACAATGTTACTTTGAAAATTGAGTTTATGTTTGACCTAAATGGGCTAAAATTACATTAGATAAACTAAAATTC
TGTCGCTGTAACATAAAATTTGTGAATGCATTTTCTGGTGTGTTGAAAAAGAAGGGGGGGGAGAATTCCAGGTGC
CTTAATATAAAGTTTGAAGCTTCATCCACCAAAGTTAAATAGAGCTATTTAAAAATGCACTTTATTTGTACTCTG
TGTGGCTTTTGTGTTTGAATTTTGTTCAAATTATAGCAGAATTTAGGCAAAAAATAAACAGACATGTATTTTGT
TTGCTGAATGGATGAAACCATTGCATTCTTGTACACTGATTTGAAATGCTGTAAATATGTCCCAATTTGTATTGA
TTCTCTTTAAATATAAAATGTAAATAAAATATTCCAATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MGPPPGAGVSCRGGCGFSRLLAWCFLLALSPQAPGSRGAEAVWTAYLNVSWRVPHTGVNRTVWELSEEGVYGQDS
PLEPVAGVLVPPDGPALNACNPHTNFTVPTVWGSTVQVSWLALIQRGGGCTFADKIHAYERGASGAVIFNFPG
TRNEVIPMSHPGAVDIVAIMIGNLKGTKILQSIQRGIQVTMVIEVGKKHGPWVNHYSIFFVSVSFFIITAATVGY
FIFYSARRLRNARAQSRKQRQLKADAKKAIGRLQLRTLKQGDKEIGPDGDSCAVCIELYKPNDLVRLTCNHIFH
KTCVDPWLLEHRTCMPCKCDILKALGIEVDVEDGSVSLQVPVSNEISNSASSHEEDNRSETASSGYASVQGTDEP
PLEEHVQSTNESLQLVNHEANSVAVDVIPHVDNPTFEEDETPNQETAVREIKS

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FIGURE 1281

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCGGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTTGAGGGGGCTGAGCCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGCACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTTTACCCACT
TGGTTGTTTTCTTGCTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCATACTGTTACCCATAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1282

MKQESAAPNTPPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLEDHEGCTWGVAYQVQGEQVSKALKYLNVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMLECFPCPTEQALALV

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FIGURE 1283

GTCGACTACCAGAAAATACTTTCAACATAAATGAACTCTCCAACCTATTAAACTTTTATATAGATAGAGGAAGAC
AGCTCTTTTCGGGATAACCACCTGATACCTGCAGAAACCCCAAGTCCTGTTATTTTCAGTGATTTTCCATTTATCT
TTAATTCGCTATCCAAAATTAAATTATTGCAAGCTGATTACATATAAAAGATGCAGATGTCAGAAAAGAAAGCAT
ACATGCTTATGCATGAAACAATTCTGCAAAAAAAGGATGAATTTCCCTCCATCACCCAGATTTATACTTAGAGTCA
GACGAAGTCGCCTGGTTAAAGATGCTCTGCGTCAATTAAGTCAAGCTGAAGCTACTGACTTCTGCAAAGTATTAG
TGGTTGAATTTATTAATGAAATTTGTCCTGAGTCTGGAGGGGTTAGTTCAGAGTTCTTCCACTGTATGTTTGAAG
AGATGACCAAGCCAGAATATGGAATGTTTCATGTATCCTGAAATGTGTTCCCTGCATGTGGTTTCCCTGCCAAGCCTA
AACCTGAGAAGAAAAGATATTTCCCTCTTTGGAATGCTGTGTGGACTCTCCTTATTCAATTTAAATGTTGCTAACC
TTCCTTTCCCACTGGCTCTGTATAAAAAAATTCTGGACCAAAAAGCCATCATTGGAAGATTTAAAAGAAGCTCAGTC
CTCGGTTGGGGAAGAGTTTGCAAGAAGTTCTAGATGATGCTGCTGATGACATTGGAGATGCGCTCTGCATACGCT
TTTCTATACACTGGGACCAAAATGATGTTGACTTAATTCCAAATGGGATCTCCATACCTGTGGACCAAAACCAACA
AGAGAGACTATGTTTCTAAGTATATTGATTACATTTTCAACGTCCTGTGAAAAGCAGTTTATGAGGAATTTCAGA
GAGGATTTTATAGAGTCTGTGAGAAGGAGATACTTAGACATTTCTACCCTGAAGAATAATGACAGCAATCATTG
GAAATACTGATTATGACTGGAAACAGTTTGAACAGAATTCAAAGTATGAGCAAGGATACCAAAAATCACATCCTA
CTATACAGTTGTTTTGGAAGGCTTTCCACAAGCTAACCTTGGATGAAAAGAAAAAATTCCTCTTTTTTCTTACAG
GACGTGATAGGCTGCATGCAAGAGGCATACAGAAAATGGAAATAGTATTTTCGCTGTCCTGAAACTTTCAGTGAAA
GAGATCACCCAACATCAATAACTTGTCTATAATATTCTCTCCCTCCCTAAGTATTCTACAATGGAAAGAATGGAGG
AAGCACTCCAAGTAGCCATCAACAACAACAGAGGATTTGTCTCACCCATGCTCACACAGTCATAATCACCTCTGA
GAGACTCAGGGTGGGCTTTCTCACACTTGGATCCTTCTGTTCTTCCCTTACACCTAAATAATACAAGAGATTAATG
AATAGTGGTTAGAAGTAGTTGAGGGAGAGATTGGGGGAATGGGGAGATGATGATGATGGTCAAAGGGTGCAAAAT
CTCACACAAGACTGAGGCAGGAGAATAGGGTACAGAGATAGGGATCTAAGGATGACTTGGACACACTCCCTGGCA
CTGAAGAGTCTGAACACTGGCCTGTGATTGGTCCATTCCAGGACCTTCATTTGCATAAGGTATCAAACCACATCA
GCCTCTGATTGGCCATGGGCCAGACCTGCACTCTGGCCAATGATTGGTTCATTCCAGGACATTCATTTGCATAAG
GAGTCAAACCACACCAGTCTTGGATTGGCTGTGAGCCAATTCACCTCAGTCTCTAATTGGCTGTGAGTCAGTCTT
TCATTTACATAGGGTGTAACCATCAAGAAACCTCTACAGGGTACTTAAGCCCCAGAAGATTTTGCTACCAGGGCT
CTTGAGCCACTTGCTCTAGCCCACTCCACCCCTGTGGAATGTACTTTCACTTTTGCTGCTTCACTGCCTTGTGCT
CCAATAAATCCACTCCTTCACCACCCAAAAA

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FIGURE 1284

MQMSEKKAYMLMHETILQKKDEFPPSPRFILRVRRSRLVKDALRQLSQAEATDFCKVLVVEFINEICPESGGVSS
EFFHCMFEEMTKPEYGMFMYPEMCSCMWFPAPKPKPEKKRYFLFGMLCGLSLFNLNVANLPFPLALYKKLLDQKPS
LEDLKELSPRLGKSLQEVLDDAADDIGDALCIRFSIHWDQNDVDLIPNGISIPVDQTNKRDYVSKYIDYIFNVSV
KAVYEEFQRGFYRVCEKEILRHFYPEELMTAIIIGNTDYDWKQFEQNSKYEQGYQKSHPTIQLFWKAFHKLTLDK
KKFLFFLTGRDLHARGIQKMEIVFRCPETFSERDHPTSITCHNILSLPKYSTMERMEEALQVAINNNRGFVSPM
LTQS

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FIGURE 1285

GCCCAGGCCTGGCTGAGGCGCCGCGGGCCGGGTCCCTCTCCACCTGCCGGGCGGAGCGCACGGGCCATGGGCTGAG
 CCCCCTGAGCCCGCCGGGCCGGCCATCGGGCGATCGCGAGCGCAACAAGAAGCGGCTGCTGGAGCTGCTGCGGGC
 GCCGGACACAGGCAACGCGCACTGCGCCGACTGCGGGGCGGCAGATCCCGACTGGGCTCTTACAAGCTGGGGAT
 CTTCACTGTCTCAACTGCTGCGGCGTCCACCGTAACCTTCCCTGACATCAGCAGAGTTAAATCTGTGCGACTTGA
 CTTCTGGGACGACAGTATTGTGGAGTTTATGATCCACAATGGAACCTCCGTGTGAAGGCCAAGTTCGAAGCCAG
 AGTCCCAGCTTTCTACTACATCCCCCAGGCCAACGACTGCCTGGTCTTAAAGGAACAATGGATTTCGAGCTAAGTA
 TGAGAGACGGGAATTTATGGCTGATGGGGAAAACCATCTCGCTCCAGGTAACCGAGAAGGATTCTGTGGAAGCG
 AGGAAGGGACAACCTCACAGTTTCTGAGAAGGAAGTTGTACTTCTGGCAAGAGAAGGCCTCCTGAAGTACTTCAC
 AAAGGAACAGGGTAAAAGCCCCAAAGCTGTCATCAGCATTAAGGACTTGAATGCCACCTTCCAGACAGAGAAGAT
 AGGGCACCCCCATGGGCTGCAGATCACCTACAGGAGAGATGGCCACACCAGGAACCTGTTTGTGTATCATGAAAG
 TGGGAAGGAGATAGTGGACTGGTTCAATGCCCTCCGTGCAGCCCGTCTGCAGTACCTAAAAATGGCCTTTCTCTGA
 ACTCCCAGAGTCTGAGCTCGTGCCATTCTCACCAGGAACTACCTCAAAACAAGGCTTTCATGGAAAAAGACTGGGCC
 AAAGCAGAAAGAACCTTTCAAGAAAAGGTGGTTTCGCCCTGGATTGCCATGAGCGGAGGCTGCTCTATTACAAGAA
 CCCACTGGATGCCTTCGAGCAGGGCCAGGTTTTTCTTGGGAACAAGGAGCAGGGATATGAAGCCTACGAAGACCT
 GCCCCAAGGGCATCCGAGGAAATCGCTGGAAAAGCCGACTCACCATTTGTACCCCCAGAGCGGAGATTGTCTCTCAC
 TTGCCCCAGTGAGAAGGAACAGCAGGAATGGCTGGAAGTTTTGCGGGGTGTCTGTCCAGCCCCCTTGACGCCCTT
 CAACCGCTTACTGCATCAACAGAGAGTGGCCGAGCAGCAGGTGACCCCATTAACCTGAGGAACTGGCTGCCACTG
 AACACCTGGAACCTCTGTGGGAAGAAGTTTGCACTCGGCCCTGGCTGCCACCACATCAGTGCCCCGCAGTCAGC
 AGCCATTCTGGCAGTGAACCTTGCCAGGACTGAAGCTGTGGCTTTATCCATCAGCTCCCTGGGCTTCCCCGCA
 ACCCACCTCGGGGATCTGAGGATCTGGTGATAGATGAACATCTATCCCCCTCTCCCCCATACACACCTAGGCTT
 GAAATGCCCTACAGGCCCAGAACTTTCTCACATCTGAAATGGAGGCATTGCAATGAAAAGGCACCCACAGCATCA
 TGCAAGTGGCATCTTGTAAGAAAAAGTTTAACTCTGAATCTAACCATGAGGAAAAATAATCAGACAAATCC
 ACATTAGGGGCATTCTGTCTAAACATCTGACCCAGACTCTTCAMAAATGAAGAGTGAAAAGATAAAGTAGTCAATGG
 CCGGGCGCAGTGAGATTGCGCCATTGCATTCCAGCCTGGGTGACAGAGCGAGACTCCGTATCAGAAAAGAAAAAG
 GGAATGAATGAAATCTCAGATGGCTGAAATGTTAGAGAAAACAGAGCACCAGTCCCCCTGCTCTGTGACTCGTTG
 TTCTTTTCTCTGTCTTCAAGCACCACGCGAGAAATACACTGGATGTTTCTCTCTTTGCTTCAATGGAGACCCAAGG
 AGCTGGGAGGTCTCTTAAGAGACTCTCTGATTCTCCGTGGCTGGGTGTGATGGCTCATGCCCCATAATCCCAGCCC
 TTTGGGAAGCTGAGGCAGGAGGATTGAGACCAGGAGTTCGAGAAGAGCCTGGGCAACATAGTGAGACCCCATCTC
 TACAAAAGAAAAAAATTAGCTGGACATGGTAATGAATGCCTGTAGTCCCAGCTACTCCGGACACTGATGTGAGA
 GGATCACTTGAGCCAGGGAGGTCTAGGCTACAGTGACCCCTCATTGCACCACTTTACTTAGCCTGGGTGACAGAG
 TGAGACCCATCTCAAAAAAAAAAAAAAAAAATCTATGCATTGTATGGGACTTTCTTTGGATCCCCCAATCAAAGGAT
 AAGCAATGCGTAAGCCTGTGTCTTCTCTGAAGCTTCTCGACTGCCCAGATAGGGAGGTGAGTCTCTCTATCTCC
 TCTGGCTCTGGAAGCACCTTGAAAAATGTGCATTTTCAAGGACACTTGCTGGGTGTGTGCATTAAAGGGCCAGTTTAC
 TTGTCTGCCTCTTTGACCACCTGTGAACTCTGTTGGGTGTACTCTGCTAAGTTCTGGGGATGAGGAAATTAATAA
 AGGTACAGTCTTGCCCTTCAAAAAAAAAAAAA

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FIGURE 1286

MGDRERNKKRLLELLRAPDTGNAHCADCGAADPDWASYKLGIFICLNCCGVHRNFPDISRVKSVRLDFWDD SIVE
FMIHNGNLRVKAKFEARVPAFYYPQANDCLVLKEQWIRAKYERREFMADGETISLPGNREGFLWKRGRDNSQFL
RRKFVLLAREGLLKYFTKEQGKSPKAVISIKDLNATFQTEKIGHPHGLQITYRRDGHTRNLFVYHESGKEIVDWF
NALRAARLQYLKMAFPPELPESELVPFLTRNYLKQGFMEKTGPKQKEPFKKRWFALDCHERRLLYYKNPLDAFEQG
QVFLGNKEQGYEAYEDLPKGIRGNRWKAGLTIVTPERRFVLTCPSEKEQEWLESLRGVLSSPLTPLNRLTASTE
SGRSSR

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FIGURE 1287

GGGCGTCTCCGCAGCTCGGCTCCCCGCGCGCTCAGCACACCAGCGGCGCCAGATGCAGGCGGAGCGAGGAGCTCG
GGGAGGCCCGTGGGCGGCGGCCAGGCCGCGGCCGGCCTGGCGGAGATCGCCACAGCGAGCGGGCCCGGAGCCGCAGC
GGCGGTAGCCAGAGGCGGCGGCGGAGGCGGCGGCGGGGACGGAGGCGGACGCCGGGGCCGTGGCCGTGGCCGGGG
CTTCCGCGGCGCTCGCGGAGGCCGAGGAGGAGGAGGCGCCCCGCGAGGCAGCCGCCGGGAGCCGGGAGGCTGGGG
CGCAGGGGCCAGCGCGCCGGTTGAAGATGACAGCGATGCAGAGACCTATGGAGAAGAGAATGATGAACAGGGA
TTATTCTAAAAGAAAGATTGTCTCTAACTGGGATCGATATCAAGATATTGAAAAAGAGGTCAATAATGAAAGTGG
AGAGTCACAGAGGGGAACAGATTTAGTGTCTCTTAGCTCTGCAGGGGACTCATTCTCACAGTTCCGGTTTGC
TGAGGAGAAAGAATGGGATAGTGAAGCTTCTTGTCCAAAACAGAATTCAGCATTTTATGTGGATAGTGAGTTATT
GGTTCGAGCCCTTCAAGAGCTGCCTCTCTGCCTCCGACTCAACGTTGCTGCCGAAGTGGTCCAGGGTACAGTTCC
TTTAGAGGTTCTCAGGTGAAACCAAGAGAACTGATGATGGCAAGGGATTAGGGATGCAGTTAAAGGGGCCCTT
GGGGCCTGGAGGAAGGGGGCCCATCTTTGAGCTGAAATCTGTGGCTGCTGGCTGCCCTGTGTTGCTGGGCAAAGA
CAACCCAAGCCCGGGTCTTCAAGGGATTCTCAGAAACCCACTTCCCCACTGCAGTCAGCAGGAGACCATTGGA
AGAAGAACTAGATCTGTTGCTTAATTTAGATGCACCTATAAAAGAGGGAGATAACATCTTACCAGATCAGACGTC
TCAGGACCTGAAATCCAAGGAAGATGGGGAGGTGGTCCAAGAGGAAGAAGTTTGTGCAAAACCATCTGTGACTGA
AGAAAAAACATGGAACCTGAGCAACCAAGTACCTCCAAAATGTTACCGAGGAAGAGCTGGAAGACTGGTTGGA
CAGCATGATTTCCTAAAAAGGGGGAAAAAGTGCCTGAAGCAAATCTTGGTTGCCTTCTAACGGCAGGTGGGCAT
AAGGCTGTCTTCAGGACCAGCCAGTTTACAAGCATGTCTCAAGCTAGTGTGTTCCATTATGCTCACAGCAGTAA
ATGCCTACCTCTGTGTTTGACATCTGAAAGAATACATTGAAGCAGCTTGTGTCATTTGTTTTCTGGCTTAGTAA
TCTAATAGATTTCTTAAAGGGCAGGAGATAGACTCTGGCCCTTGTTTCTAGCCTCCTTCCTTGCAGTGTTTACAA
CATAGCCAGTGTTTACAGCATAGCAGATGCTGCTGCTGGTTAAGAGAATAGATGCAACAAGGCATGCATTGGC
CAAAATAAACAAATGCTGGTCTGTCCAAAAAXXXXXXXXXXXXXXXXXX

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FIGURE 1288

MQAERGARGGRRPGRGRPGDRHSEPFAAAAVARGGGGGGGGDGGRRGRGRGRGFRGARGGRRGGGGAPRGS
RREPGGWGAGASAPVEDDSDAETYGEENDEQGNYSKRKIVSNWDYQDIEKEVNNESESGESQRTDFSVLLSSAGD
SFSQFRFAEEKWDSEASCPKQNSAFYVDSELLVRALQELPLCLRLNVAAELVQGTVPLEVPQVKPKRTDDGKGL
GMQLKGPLGPGGRGPIFELKSVAAGCPVLLGKDNPSPGPSRDSQKPTSPILQSAGDHLEEEELDLLLNLDAPIKEGD
NILPDQTSQDLKSKEDGEVVQEEVCAKPSVTEKNMEPEQPSTSKNVTEEELEDWLD SMIS

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FIGURE 1289

TGATAGCTGCGTAATCATACTGCGGCACCGTTTTTTTTCTTGCAGCAGTAGCTGCTTGCGGAGGAGGTCTGCCAC
TGCAGCTCTCTGCAGTCTCCGGCTCTCTCCTGCAGGATCGGTCAACGCAGCCGTCGCCGCCCTCTGCACCCAGCC
CAGGTCGCCACTGCTTCAGTCCGGTTCTCAAAGCCTCAGCACCATCTTTATCCCCGAGCAGCCTGGATCGTCGT
TCCCTCAGTCCGGACGCCACTGCTAGGTCCGACCACCGCCGCTTCTGATATTTCCGGTGAGTCTTTTCCCTGTGGAG
GTTTGGTCTCCCGATCTCTGTGGTAGCCACCTTAGGCGTGTACGGTCCTTTGAAAAATGCGCCGAGTCAGAGAACC
GCAAGGAGCTGTCAGAATCCAGTCAAGAAGAGGCTGGTAATCAGATAATGGTGAAGGGCTCGGGGAACATCTGG
AGCGCGGTGAAGATGCCGCTGCTGGGCTTGGAGACGATGGGAAGTGCAGTGAAGAAGCTGCCGCTGGGCTTGGGG
AAGAAGGGGAAAACGGTGAAGATACTGCTGCTGGGTCCGGGGAAGATGGGAAAAAAGGTGGCGATACTGATGAGG
ACTCAGAGGCAGACCGTCCAAAAGGACTTATCGGTTATGTTTTAGATACAGACTTTGTTGAAAGTCTACCTGTGA
AAGTTAAGTACCGTGTGTTAGCCCTTAAAAAGCTTCAAACCTAGAGCGGCCAATTTAGAATCCAAATTCCTGAGGG
AATTTTCATGACATTGAAAGAAAGTTTGTGAAATGTACCAACCCTTACTGGAAAAAGACGTCAGATCATCAATG
CAATCTATGAACCTACAGAAGAGGAATGTGAATATAAATCAGACTCTGAGGACTGTGATGATGAGGAAATGTGTC
ATGAAGAGATGTATGGTAATGAGGAGGGTATGGTACATGAATATGTGGATGAGGACGATGGTTATGAGGACTATT
ATTATGATTATGCTGTGGAAGAGGAGGAGGAGGAGGAGGAGGAGGACGACATTGAGGCTACTGGAGAAGAGAATA
AAGAAGAGGAGGATCCTAAGGGAATTCCTGATTTTTGGCTAACTGTTTTAAAAAACGTTGATACACTACTCCTT
TGATTAAGAAATATGATGAGCCTATTCTGAAGCTCCTGACAGATATTAAGTTAAGCTTTCAGATCCTGGCGAGC
CCCTCAGTTTCACACTAGAATTTCACTTCAAACCCAATGAATATTTCAAAAAATGAGTTGTTGACAAAGACCTATG
TGCTGAAGTCAAAGCTAGCATATTATGATCCCCATCCCTATAGGGGAACGCGATTGAGTATTCACAGGCTGTG
AGATAGATTGGAATGAAGGAAAGAATGTCACTTTGAAAAACCATCAAGAAGAAACAGAAACATCGGATCTGGGGAA
CAATCCGAACGTGAACCTGAAGATTTCCCAAGGATTCATTTTTCAATTTTTTCTCTCCTCATGGAATCACCTCAA
ATGGAAGGGATGGAATGATGATTTTTTACTTGGTCACAATTTACGTACTTACATAATTCCAAGATCAGTATTAT
TTTTCTCAGGTGATGCACCTGGAATCTCAGCAGGAGGGGGTAGTTAGAGAAGTTAATGATGCAATTTATGACAAAA
TTATTTATGATAATTGGATGGCTGCAATTGAGGAAGTTAAAGCTTGTGCAAAAAACCTTGAGGCATTAGTAGAAG
ACATTGATCGTTAGAGCAGAGTATACATGGCCCTGAAATTAAGTCCCTAGATATAGTTACTCAAGGTATAAGAA
GCCTTGTGTTCTGTATTTTTCTTGTAGTGTAGTTAAACATATGTTTCAAAAAATATAAGAAAAGTTCAAAAACT
AATTAATTTGACCTTGAGTTTTAGTAGTAGAATGTTTTCAAGAAATGTACACTGTGGTAAATGATTTAAACACT
AGTATAGTGTGTTGTAGCTTAATCCTTCTGAAGTCTTTTTGTGATGTAGCTATTAATCTGTGGCTATGAAATGAT
CAGAAAAGCTAAGTGAGATCAATATTTGTTTGGAAAAAAATCTTGGGAAACACCCAAGGGTTTTCGCTGTTGT
TGTTTTCTTTTTCTATTTTTGTTTACTTAGTCCTTTAGCTAGTGGAATTAATTTGTTGTGCCTGCTTCATTTT
GCAATAACAATGCAGTAGAATTTAAACCTTGGATGCTTAAGAGGCCTGCATATAGATAAGAATTTCAGGCAAAAC
TACATTTATTGTTAATAACAGCTTGTTCATAGGCTCTTGTATTTTATGTAAGTGTGATAAATAATGAACTTAGT
TATATTGAGGTTATTGTTTGTGCGTGAAGTGTAGTCACAGTATTTTCAAAAGTTTGACATATTGTTCTGTGTA
ATTGTGTAAGCCATAATTACAGTGTTTAATTCCTTTTCTATTACATCATTCATTGAAAGTGATCACTTTACCA
TTTTGAAAAGATATTTCTGTGTTCTTCACTGCAAAATAAAAAAGATAAAAAATTTCAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1290

MAESENRKELSESSQEEAGNQIMVEGLGEHLERGEDAAAGLGDDGKCGEEAAAGLGEEGENGEDTAAGSGEDGKK
GGDTDEDSEADRPKGLIGYVLDTDFVESLPVKVKYRVLALKKLQTRAANLESKFLREFHDIERKFAEMYQPLLEK
RRQIINAIYEPTEEECYKSDSEDCDDEEMCHEEMYGNEEGMVHEYVDEDDGYEDYYYDYAVEEEEEEEEEEDDIE
ATGEENKEEEDPKGIPDFWLTVLKNVDTLTPLIKKYDEPILKLLTDIKVKLSDPGEPLSFTLEFHFKPNEYFKNE
LLTKTYVLKSKLAYYDHPYRGTAIEYSTGCEIDWNEGKNVTLKTIKKKQKHRIWGTIRTVTIEDFPKDSFFNFFS
PHGITSNGRDGNDDFLLGHNLRTYIIPRSVLFFSGDALESQQEGVVREVNDAIYDKIIYDNWMAAIEEVKACCKN
LEALVEDIDR

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FIGURE 1291A

GTATTCTCCGCCGCCCCACGCCCTCGAGGTCCCCGCCACCGAACCAGCGGGCGGAGCCCCGCCGCGCCTCCCGCG
GCATTCCCGCACCGGATCGCTCCTCGCTGGGGCGGGACCTGGCCTGGCGGCTCTGGTCACTATGAGTGAAACATC
TTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGACCATCCTGAAAACAGGATTTACCGGAG
GAAAATCGAGGAACCTCAGCAAAAGGTTACCGCCATCCGCAAGACCAAGGGGATGGGAACCTGCTTCTACAGGGC
CTTGGGCTATTCTACCTGGAGTCCCTGCTGGGGAAGAGCAGGGAGATCTTCAAGTTCAAAGAACGCGTACTGCA
GACCCCAAATGACCTTCTGGCTGCTGGCTTTGAGGAGCACAAAGTTCAAGAACTTCTTCAATGCTTTTTACAGTGT
GGTGGAACTGGTAGAGAAGGACGGCTCAGTGTCCAGCCTGCTGAAGGTGTTCAACGACCAGAGTGCCTCGGACCA
CATCGTGCAGTTCTGCGCCTGCTCACGTGCGCCTTATCAGGAACCGAGCAGACTTCTTCCGGCACTTCATTGA
TGAGGAGATGGACATCAAAGACTTCTGCACTCACGAAGTAGAGCCATGGCCACGGAGTGTGACCACATCCAGAT
CACGGCGTTGTGCGAGGCCCTGAGCATTGCCCTGCAAGTGGAGTACGTGGACGAGATGGATAACCGCCCTGAACCA
CCACGTGTTCCCTGAGGCCGCCACCCCTTCCGTTTACCTGCTCTATAAAACATCCCACTACAACATCCTTTATGC
AGCCGATAAACATTCATTAATTTTAGGCCATGCAGTGGAACTGTACCTAATGGGACTGCATTCTGAATGGAAC
ATTCCGGCTCTTCAATTTTTTAAGCAATTTAGACTGTAGCAAGAAAATGTGCAGCCTTTTGGGCAAAGCCCTGG
GAACGAGGCCTACCCACTATGGACTATGGTAACCTGGTAGGATTTTTAGTATTTATTTTAATGGAGGGACAAATG
CTTTCTAACTGGGCCCCCGACTCCGCACCCCAAGTTCGCAGTGGGCCCTGGGTGGGTACCTGCCCTCTCTGGAC
TTGTTTCTTCAACTGGAGGAGGTCCCTGCCTATGCTGACATTCCATTGTAGAAAAATGGGGCCTCTGGTGTCTCT
TTACCAGGGGCAGTGCCTCTCTGCGGGGGAGGAAAAGCTCAAGGTTAGCTGTCTTAACCCAAGTGACTTACCAGG
CCTACAAAAAGAGTCCAGTCCAGTCACCTGTTGGACTGGGCTCTGACAGATGGCCTATTGAGGTCAACTTGAATGT
GAGGGCTGCGGTGTGGTTTCAAACATTTCATGATGGATGTATTTTCTACCCCTAACTTAAGGAGAAAAA
GACTTCCTTTTTTTTGCCAAAGTCCAGAAAGGGGCCCTTTAGCCTTTAGTAGGAGCTCAAAATGTTGGGGCCCTCT
ACCTCTCTCAGGGCTAGAACTGCCTGACTCTTGGTGGACGAGCCCTTCAGGGTTCTGCTTTACGCCCCACCTGGA
CAGAGGCTTACAAGACTAGGGTCTGGACCAGAATCTGTGTATTTCTGTCTGGGACCAGGAAGCTGCAGCTGTCCC
ATCATCCCCAGCAAAATCCTAGAAGTGGAGTCTGGATACTTCAAGGATAGAAGTGTGGCAGGCACAGCCATGGAC
CCAGCTGAGCAGAGCAGACGCTTTGCAGGCTGCCCTGGCTTCTTCTCCCTTTCCCGCTTCTGCTCTCTTTATG
GACTGGTCAGAGGGTAGGTGGGAAAGAACAGACAAGCCATGGAAGTTGGCAGTGGGGAGATTTCCACTGTGGAAA
CCGCTTGGGAATTCGGCCAGCAGCTTCTCTCTTACGCCACCTGGCCATAACCCCTTAAATAAGCCCTCACCTTG
CTGCCTCAGGACCTTCAAGATTCCATCTGTGGGCTGGCCGGCAAGATGGCACCAGTGGGGACCCACACCCCTGGCT
GGGCAGAGGTGCTGCTAGCAACCCCTCTTCTCTATAAGAGGAAATGGAATGCAGGGTGTGGAATTGCCCTTT
GGGGTCTTCTTAATTGAAGGCCACCTTCTCACAGGTTTCATTCTGCAGGGATTACTGGAATCTATTGGTGTCT
GCTGCATGAGTCTGCTGACAACCTGACTGCACAAGGACTGGGTAGCAGACTCCTCAGAGTCCCTTGGACACAAAT
GTCAGATTTGTGTCACTCTTCTGCCTTCGTGAAAAGCCAATAGCACTCTCAGATATCAGGGGATTTTAGTTCCAA
GCAGGGACCCCTGGTTTCCATACTGCCCTCAGCTGGAGTTTGGATCCAAAGGCTCTGGCTAAGTCATTATGTCACT
TTCTCACAGGAATGTAAATTTGACTGTACCTCTGAATTTGTTTCAGTGTCCACCATGGTCTATGAGAAGTACAC
TGGAAGCGTGGGGGGAACACATGACATGATTTGTGAATATCATCATCTTTGCCAGACAAGTCTCCAGGGGATCCC
TGTTTCCCAACTGAAAGGTGTGAACGGACACACACAGCCTGGATGACGCCTTGGCTGTTCTAAGGGGCTGTAA
GGTGGGCTCTGGGCCTTCCAGCTAGGCTCTCAAGCACAGCAGAAGCCTCACTGGGCTGCTATGTCTCTGTATTG
TGGCTTGTGTGGTAGCCTCAGAAGCAGAGCTGTTTGGCAGACTGGCTGGAGAAAATCCCTCTAGGAGACTTGCCCT
GTGCTGTGCTTCCAGGTCACAGAGCCCCCGAAACTCACAGGGGCCCTCTTCCAGAAAAGAATCTATTCTATC
ACTTCAGAACTCAGGACACTCAAGCTCTGGCAGAGGAAGGCCAAGTTACTTTTCATGGTCTTACCCTCTGCTTTTCC
CCTTTTGCAAAAAACCACTGGCCAAATCCGAACCATTGCCCTTGTTTCCCCCACGTTCTCTCTCAGATCTTTGT
CTCGAAGGGAAAAACATAGTGGATGAAAAGGTGTGGCAGGCTTTGGCACCTTGTAAAATTTCTAGTCATCTGTGG
ATGTTACCTTGCTTGTCCACAGCAGCCAGTCACCTGGCCAGTCCCACTTCTTGGATAATTCTCTACCCCTACCC
CACAGAGCCATCTCTCTCCAGACCAAAAGCTGGAAGGAGAGTTGCTTTGAGAGCTTGTTTTTACAACCTGCATGTT
TATTATGATACTTTCTCTCCAAAGGAACTTTTTAAATCAATGGGAACAATTAGCAACAGAAAGAGCACAGTCCCT
GCTTTTGAAGTGGTTCCTATTTTTAAGCACAAATGAGAGCTCTGGAGCCAGAATGCCAGGGTCTTAACCTCAGCAT
TCACCTACTAGCTGTATGATCTTGGCCAAGTCACCTTACCTCCCTGAGCCCCAATCCCAAGTTTGTGAAATGGC
ACAATACCTATGTGTCACTGGATTATTGGTTAAAACAGAATGAGATTCTTGTGTGAAAATAGCTATTATACCT
GACACACTCATCGTATGGGCTCTGCAAAGGGATATTCCCAACCTGTCTTCCCGACAGGAAGCATAGGGCACTG

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FIGURE 1291B

CAGATGGGGAAGCATGTCACCTTGGCAGTGACTCGGTGGCTTCCCAAGCAGGAGTGTGAGGGGAACCATGAGAGA
GAGTCTAGGAGCCAAACACATCACCACCCTGAGCAGATACAGGAGTGGGGAGGGGGCTGTAAGTCAAGTCAAGTGGC
TTCCAGGGGCCCCAGGCCCTGCTGGATGTGGGCCAAGCCCTACAGCTTCCCTAGGCAGTAAGTAAAAACATTCTC
CTAGCATTAAAATGGTTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSETSFNLISEKCDILSILRDHPENRIYRRKIEELSKRFTAIRKTKGDGNCFYRALGYSYLESLLGKSREIFKFK
ERVLQTPNDLLAAGFEEHKFRNFFNAFYSVVELVEKDGSVSSLLKVFNDQSASDHIVQFLRLLTSAFIRNRADFF
RHFIDEEMDIKDFCTHEVEPMATECDHIQITALSQALSIALQVEYVDEMDTALNHHVFPEAATPSVYLLLYKTSHY
NILYAADKH

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FIGURE 1293

GTCTGTAGGTTAAGGGAGAAAGATGGCGGCGCTAGGGGAACCCGTGCGGCTGGAGAGAGATATTTGTAGAGCAATT
GAATTATTGGAAAACTACAAAAGGAGTGGAGAAGTACCACCACAGAACTTCAGGCTTTGCAAAGAGTCCTTCAA
AGTGAATTCTGCAATGCTGTGAGAGAGGTATATGAACATGTCTATGAGACTGTGGACATCAGTAGCAGTCCTGAA
GTGAGAGCGAACGCTACTGCAAAGGCTACTGTTGCTGCAATTTGCTGCCAGTGAAGGACATTCTCATCCTCGAGTT
GTTGAGCTACCAAAAACAGAAGAGGGCCTTGATTCAATATTATGGGAGGCAAAGAACAAAACCTCTCCAATCTAT
ATATCCCGAATAATTCCAGGTGGAATTGCTGATAGACATGGGGGCCTCAAACGTGGAGATCAACTCCTCTCTGTT
AATGGAGTGAGTGTGAAGGAGAACATCATGAAAAGCTGTAGAAGTCTGAAAGCCGCACAAGGAAAGGTTAAA
TTAGTGGTACGATACACACCCAAAGTCTTAGAAGAAATGGAGTCGCGCTTTGAAAAAATGAGATCAGCAAAACGC
AGGCAACAGACCTAAATACATTTCAAACCTTGATATTTCAATTTTGCCTTTTAGCTAGAGAAGTTTCTTGTGACT
TACTAATGGCTGCAATGCCAATGATTGTAAGAAAACAAACAAATTTATCATGAAATTCTCCTTGTCAATTTTATAA
ATGCCTATTTTAACATCATTATGTTCCAGAGATGCATACACTTTTTCTGACAAGAAAAAGTAAAAGGTGATG
AGGGCAATTCTGTCCTACTGTTTTTACAGGCCTTTTTCAAATGCAGATTTTGTCTATAAGTTGTTATAGATTTTT
TAAAATGCTTTTTTAATATTAAAATGTACTTTTACATTCTTAATCTTTTTTTAGAAAGGAAAAGTTTTCTTCATT
TAGCTGCTGATTTAAAAGTAAAGTTCTCCAATTCTTTTTTTTGCTTACTCTATTTTTTTTAACCTGTGAAATTT
CTTTACAGTTTTTCCAAGAAATTAAGCATAACAGTCTCATCTACGGCAGTTCATTACACTGTCAATGTTAACATCA
TTGCTGCATTTTGTACTTTGAACACACACATAATATATAAACCAGTGGTAAATCATGACTCAGTACAGTGCAAG
TTTTTTCACTTTTACTTAAACATAATATATAATGGATATTCATTTATACTGATTTATGAAAGTAAGTTTTTAAAC
ACTGAAACAATCATTGCTAAAATACATATTCTTAATATTTGAGCATTGAGGCAAGAGGATGTAATTGATAGCATT
ACTTATTACATCCCTATTTATGTTCAACCGTACATCAAATTATAAATGCAAAACAGGTTTCAAGATTTTCATCTTTTG
TGATTTCTTTTAAATACTATTCAATTTTATTTAAATGCACAGTATTTCCCTATATTTTAGTCCTTCCATTCCTA
GAGACAAACCAGTTATTTGGTGGTGGGAAGTAGCTGAAGCAAAGAAGGAAAAGTAATACCTTTAACCTCACTAGC
TTCAAGAGTAGACATTCTTACTAGCTCAATTTAAATAATTGATTTTAAATAGGAAGAAAAGAGGATATATTTAAG
ATACATAGAAATTATGATGCGAAGTATTCATGAGAATCTGTAGATTCCATCAAAATAAGTAGGAACCTACATACTAA
AATTGTTGGATTTAAAGAGGCAACTTTTGTTTATGATTCAAATATGGGAATTTGAGAAATATTTCAATTTGTCCAC
TGGATGTCATATTTTACTAAAAGGCAGCTATTAGTGTGGGACTGTGACTGAGGTCTTAAAGACTGAAAGAGTTG
GGGTTCAATTTCTGTTACAACCTTACAGGAACATTTGTACTTTAAGAAAAATTTAAGTGACAAATGTTAGAAGATG
ATGGATTGAAAAATATAAGTAATTTGGCATATTGACCCTATATAAAAAAGTGGGCATTTTGTAACATTCCTTCAG
GAAGAATAGAATTGTATGCTTTTTTCTGCATGTTTGTGATCACTGTGAGTCTCAGATGATTATTCAGTTTTTCAA
TGATTTTCAAAATAAAAGTCAATCAGCATTGTTATTTATCATTAAGGTATTGAACACTGGATTGCATGGTTGAA
TGTGCTTTAATTCACTACAAATGTGCTTGTTATTGATAGGATCATGTTGTTAAATTGTAAATTTTCAAAATTA
ATTGATGTTTTAAAAATGTTGAGACCAAAGTAGTATAGAAGTATGGACTTAATTTAATTGTAAATTTATTAGAGG
TATTTGTTGTAGAGCTTTATATATTAAAGAGAGGTATTGGTGCATAT

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FIGURE 1294

MAALGEPVRLERD ICRAIELLEKLQRSGEVPPQKLQALQRLQSEFCNAVREVVYEHVYETVDISSSPEVRANATA
KATVAFAAASEGHSHPRVVELPKTEEGLGFNIMGGKEQNSPIYISRIIPGGIADRHGGLKRGDQLLSVNGVSVEG
EHHEKAVELLKAAQGKVKLVVRYTPKVLEEMESRF EKMRSAKRRQQT

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FIGURE 1295A

CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCGGCCATCTC
CGCACCCCTTCAAGTGGGTGTGGGTGATTTCTTGGCGGGGGGAGCAGCCAGGTGAGCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCCGCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTACCCAGGAGCCGCTGCACCTGGTGAGCCCTC
GTTCTGTCCGTACCATTTGACGCCAACCTGGCCACGACCCGCGGTTCTCATCTCCTGGGTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAAGCTGCTC
AGGACTGGACTTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAACTAGGCAATGAACCTAACAGTTTCTT
TAAGAAGGCTGATATTTTCATCAATGGGTGCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAACCTCTATGGTCTGATGTTGGTCAGCCTCGAAGAAAAGACGGCTAAGATGCTGAA
GAGCTTCTGAAGGCTGGTGGAGAAGTGATTGATTACGTTACATGGCATCACTACTATTTGAATGGACGGACTGC
TACCAGGGAAGATTTTCTAAACCCTGATGTATTGGACATTTTATTTTCATCTGTGCAAAAAGTTTTCCAGGTGGT
TGAGAGCACCAGGCCTGGCAAGAAGGCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTGAGCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTCTTTGGAGCAGGAACTACCATTTAGTGGATGAAAACCTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTCACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAAATACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAATCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGAAAAACCTCTCCGGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATCTGAAAATAAAATATACTAGTCTGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTGAGTGCTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTTTGCATGTTTTACTTTTATCTAAAGTTTTGT
TTTGTTTATTATTATTATTATTATTATTATTGTGACGGAGAGAGATTCCATCTCAAAAAACAAGTTATTAAAA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAATGTATTAGAAGATTTTAGAATTCCTTCTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAACTGGTTGTAAAAGAGAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGCTGATTTTCTTCTTTCGGTTTTCTTTGTGAGCAATAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTAGAGGCGAGGAGATTCTGTAACTTAAATTTACTATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAAACCCCAATACCTTATAACTGTCTGTTAATGCTTGCTTTTTCTC
TACCTTTCTTCTTGTTTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTCACCAGG
GGATCTGGGTCTTCCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCATGGGCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGAGTCTC
CTTCATAGACTTGAATAACTCTTTTTTACAGAGCTTCTACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAATGGGTAAATGTGGCCATTTACCAGTCACTGCCAACAACAACGAGGTTCCATAATTGTCTCTGAGTA
ACCTTTTGAATGGAGAGGGTGTGGTCAGTCTACAACTGAACACTGCAGTTCTGCGCTTTTTACCAGTGAAAA
AATGTAATTATTTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTTATTTTAAATAGCTTTAGGGGTACACACTTTTTGCTTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTCATCCATTACCCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAATACATTATTCTTCTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCCATTCAATTTCAATTCAATTTAAGTATATTTGTAAGG

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FIGURE 1295B

AGCTAAAGCTGAAAAATTAAATTTTAGATCTTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTATATTTTCA
CATTGAAATAAAGTAATTTTATAACCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKLRLWPYQEQL
LLREHYQKKFKNSTYSRSSVDVLYTFANCGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYLL
NGRTATREDFLNPDVLDIFISSVQKVFQVVESTRP GKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTVLMAVQGSKRRKLRVYLHCTNTDNPYKEGDL
TLYAINLHNVTKYLRLPYPFSSNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTLPLMEKPLRPGSSIGLP
AFSYSFFVIRNAKVAACI

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FIGURE 1297

GGCTGCGCTTCCCTGGTTCAGGCACGGCACGTCTGGCCGGCCGCCAGGATGCAGGCCCCGCACAAGGAGCACCTGT
ACAAGTTGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCAGTATCATCAAGCGCTACGTGCACCAGAACTTCT
CCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTG
GCCTGCAGCTCTGGGATATCGCAGGTCAAGAAAGATTTGGAACATGACGAGGGTCTATTACCGAGAAAGCTATGG
GTGCATTTATTGTCTTCGATGTCACCAGGCCAGCCACATTTGAAGCAGTGGCAAAGTGGAAAAATGATTTGGACT
CCAAGTTAAGTCTCCCTAATGGCAAACCGGTTTCAGTGGTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATG
TGCTCATGAACAATGGCCTCAAGATGGACCAGTTCTGCAAGGAGCACGGTTTCGTAGGATGGTTTGAAACATCAG
CAAAGGAAAAATATAAACATTGATGAAGCCTCCAGATGCCTGGTGAACACATACTTGCAAATGAGTGTGACCTAA
TGGAGTCTATTGAGCCGGACGTCGTGAAGCCCCATCTCACATCAACCAAGGTTGCCAGCTGCTCTGGCTGTGCCA
AATCCTAGTAGGCACCTTTGCTGGTGTCTGGTAGGAATGACCTCATTGTTCCACAAATTGTGCCTCTATTTTTAC
CATTTTGGGTAAACGTCAGGATAGATATAACCACATGTGGCAAGCCAAAGATCTATGCCTCTGTTTTTCAATGAG
AGAGAAATAGCAAATGTTCTTTCTATGCTTTCCTCACCATCATCACAGTGTTTACAACTTTTGAAAATATTTAG
TCTGTTACAACTTCTGTCTATGTAGCTGACCAAAATCCTGCAGGGCCACAGTCGGCACTGTTATTTGCTTCTTTT
AATCAGCAAAGGCCTCAAGTCTTAAATAAAAGGGGAGAAGAACAACAACTAGCTGTCAAGTCAAGGACTGGCTTTC
ACCTTGCCCTGGTGTCTTTTTCCAGATTTCAATATATTCTCTGATGGCCTGACAGGCCTATTAAGTAGATGTGAT
ATTTTCTTCCAAGATGACCTCCATTCTCGGCAGACCTAAGAGTTGCCTCTGAGTTAGCTCTTTGGAATCGTGAAC
ACAGGTGTGCTATATTGTCCTTGTCTTAAGTGTCACTTGCCATGGCCTGAATGTTGGCTTAACTGAATATTGTAT
GAAAAGACATGCCTCCATATGTGCCTTTCTGTTAGCTCTCTTTGACTCAAGCTGTGGGGCTCCTCTATACATGCT
ATACATGTAATATATATTATATATATTTTTTGCAAGTGAACAATAAAACATTAAAAGATAAAA

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FIGURE 1298

MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQERFGNM
TRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGKDVLMMNGLKMDQFCKEH
GFVGVWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSGCAKS

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FIGURE 1299

GGCACGAGGAGCAGACGCCGGGCTGCGCGCTGGGAGCTGCGGTCTCCGGCCATGGCCCCCGCTCCGCCCCCGCC
GCCTCCTTCTCGCCCTCCGAGGTCCAGCGGCGCCTGGCGGGCCGGCGCGTGCTGGGTCCGCCCGGGGCCCGCCTC
TACGACCTCTCCAGCTTCGTGCGGCACCACCCGGGGGGCGAGCAGCTGCTGCGGGCCAGGGCGGGCCAGGACATC
AGCGCCGACCTGGACGGGGCCCGGCACAGGCACTCGGCCAACGCGCGCCGCTGGCTGGAGCAGTACTACGTGGGA
GAGCTCCGCGGGGAGCAGCAGGGCTCCATGGAGAACGAGCCTGTAGCCCTTGAGGAACTCAGAAGACAGATCCT
GCTATGGAACCACGGTTCAAAGTGGTGGATTGGGACAAGGACCTGGTGGACTGGCGAAAGCCTCTCCTGTGGCAG
GTGGGCCACTTGGGAGAGAAGTACGATGAGTGGGTTACCAGCCGGTGACCAGGCCCATCCGCCTCTTCCACTCA
GACCTCATTGAGGGCCTCTCTAAGACTGTCTGGTACAGTGTCCCATCATCTGGGTGCCCTGGTGTGTATCTC
AGCTGGTCCTACTACCGAACCTTTGCCCAGGGCAACGTCCGACTCTTCACGTCAATTTACAACAGAGTACACGGTG
GCAGTGCCCAAGTCCATGTTCCCCGGGCTCTTCATGCTGGGGACATTCCTCTGGAGCCTCATCGAGTACCTCATC
CACCGCTTCTGTTCACATGAAGCCCCCAGCGACAGCTATTACCTCATCATGCTGCACTTCGTATGCACGGC
CAGCACCACAAGGCACCCCTTCGACGGCTCCCGCCTGGTCTTCCCCCTGTGCCAGCCTCCCTGGTGATCGGCGTC
TTCTACTTGTGCATGCAGCTCATCCTGCCTGAGGCAGTAGGGGGCACTGTGTTTGCGGGGGCCCTCCTGGGCTAC
GTCTCTATGACATGACCCATTACTACCTGCCTTTGGCTCGCCGCACAAGGGCTCCTACCTGTACAGCCTGAAG
GCCCCACCGTCAAGCACCACCTTTGCACATCAGAAGTCAGGATTTGGTATCAGCACTAAATTGTGGGATTACTGT
TTCCACACCCCTCACTCCAGAGAAACCCACCTGAAGACGCAGTGAACAACCTCCACCCCTCCGTCCTGCCCTCAG
CCCCGGCCCTGGCCCCCTTCCCGACCCCAACCGCCATTAGACCCCATTAAGAAGGTTGGCTTGGCCAGGCAGGAT
GGGCTGTGTCCGGCCCTGCAGCCTAGTGAAGGTGCTGAGGGGGCCCTGAGGCAGGACCGCCCTCCTGACCCCTG
GTAGGAGGGTCACATCCACTTGGTGGCCAGGTGGCCCTTGGTGACCCACTTCTTCTGGAGCGTCCCTGCCTAGA
GCTCAGCCACAGGACTGCTTCAGGCCGTGGCCACAGGTAGCAGCCGCAAGGGGAAATGAAGAAAACCTGAGCCCT
CGTGGCCACCTGTGTACCCCTTGTGCCTTAGCCTCATGGGCTGCCTAGGAGCTGCCTGCACGGCACAGCTCGCTT
TCACAGTCAGAAGTGGGTCTGTGGGATCTGTGGTCCCTGTCTCCCTGCTGTCCCTTCTGGGGAGGCTTTGGTGG
CTCTGAGGTGGACAAAGAGCTCTCGCAAGAAGAGACAGCGTGATGCCTCCACAGTCCACCCAGACCCCTGGGGC
AGCCCTCTGGCCCTGCCAGCTGCCTGCGTCGTTGGGCCAGGGTGGCTGGCAGGAGTCCAGCTGCTTGCTTTA
GGACCTCGCAGCTTTTCTTGCCGTCCCTCCCCTGCCTCCAGAATCACAGCCCTTCTCCCAAGGGAGGCTGAGGA
GGCTTCTCCACAGTGGCAGCCCCACCCGCTCCCTGGCCATTCTTGGCCTCCACCCCGCTCAGGCCCTACTCGG
GCGCTCCAGAAGGAGCCACCTCTCAGTGCCTCACCTCCCCCTGCCTCCAGCCTCCGCAGATGAGGTTCCCTGCC
CCTCCTCCTCGTAACCAAAACCCCTCACTGCTCCCAGGACGGTCTTATTTATAAACCAGATACATGTTCTTAGTC
TGGTCCCAGACCAAGGAGCTGGTCAGACGGCCCTTTCTAATCCTACATGTTGAGCTTATGTAAAAAATGTTGTTT
CCTCCTGTTTTTGGTTCCCTTTTACCCACAAACCATTACTACTTGAACTTAAAAAATCGCCAAGTGTAAGG
CTAAAGAGAAGCAGTTTGACGGACCTTGTGATTTGTACTGTTTGCTGCGGAGCTATTTAAAGATTTTGAATAAA
TATACAAAACCTACGGTTGTGAAATAAAAACTTAAATTGTATATTTGAAAAATAAAACACTGAAAAGAAACCAA
AAAAAAAAAAAAAAAAA

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FIGURE 1300

MENEPVALEETQKTDPEPRFKVVDWDKDLVDWRKPLLWQVGHLEGEKYDEWVHQPVTRPIRLFHSDLIEGLSKT
VWYSVPIIWVPLVLVLSWSYYRTFAQGNVRLFTSFTTEYTVAVPKSMFPGLEMLGTFLWSLIEYLIHRFLFHMKP
PSDSYYLIMLHFVMHGQHHKAPFDGSRLVFPPVPASLVIGVFYLCMQLILPEAVGGTVFAGGLLGYVLYDMTHYY
LHFGSPHKGSYLYSLKAHHVKHHFAHQSGFGISTKLWDYCFHTLTPEKPHLKTQ

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FIGURE 1301

TATTTTGTGATGTGTTGAACCTCGATTAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG
TCAAATTGTAACCTGACTCCGAGCAGGAAAATATCTCCATGGTGGGAAGGGTTAAATTTGTATTCCGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGTTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC
ACTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGCTGATATTAATCTCAGGCATAAGATTTGTTTCAGCATGATGCT
GTAGAGGGAATCTTAATTGCTCACCCTGGTAAGACTACGCTGGAAAATGTGTGCTGCAGTGTGAGACGACCGGA
GTCACAGTGGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGCTGGTATAGAA
ATCTACCCTGGGAGTCAGTGCACCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT
GTTGCTTGGTGAAACCTACAATCTTCTGACCTGCAAGAAAATGCTGAAGATGGAAGTGAAGAAAATAAAGCG
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT
GGTAAATGGAGCTTTGTGCAAGAACTGACCTTCTGAGCAAGTGCAGGGAAAATGTGAAATTGTAAATGAACATA
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGGATCAGCAAGCTGATGAC
AACTTAATGTCACAGGAGATGTTTGTGGGATTGTGGGGAACCAGTTCAAGTGGAAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTTCTGACTACAGTGTGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA
CTGCTGCCATTGTAGTTTGTGCTGATTGTCTGATTTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTGGTTACT
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCATAAAAAATG
CAATAGGTGTATATGTACAGCATTCTTCTTAGAGTTGCCTTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTATTTGCATAATACTTGTCTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG
ATTAAAAACAAGGTATTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGCCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCCTTACAGTATTCTGATTATATTACTGACACAGTCAA
AATGATTAACTGTACAACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAACAGCTTTAAAAATATTTAT
ATTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATATATAGTGATGAAATAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 1302

MVEGLKLYSEMEQLKQKLLIENPLLRVVFQYQKNSNIQAKGVRSSGQKITHVVSSTMMAGLLRSLLTDRLCQEP
GEEEREIQFHSDPLSAINACFEGDTVIVCPGHYVVHGTFISIADSIIELEGYGLPDDIVIEKRGKGDTFVDCTGADI
KISGIRFVQHDAVEGILIAHRGKTTLENCVLQCETTGVTVRTSAEFLMKNSDLYGAKGAGIEIYPGSQCTLSDNG
IHHCKEGILIKDFLDEHYDIPKISMVNNIIHNNEGYGVVLVKPTIFSDLQENAEDGTEENKALKIQTSGE PDVAE
RVDLEELIECATGKMELCARTDPSEQVEGNCEIVNELIAASTQKGQIKKKRLSELGITQADDNLMSQEMFVGIVG
NQFKWNGKGSFGTFLF

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FIGURE 1303

AGCCCGGCCAGGCACCCCTGCAGCATGGCCTGGAACACCAACCTCCGCTGGCGGCTGCCGCTCACCTGCCTGCTC
CTGCAGGTGATTATGGTGATTCTCTTCGGGGTGTTCTGTGCGCTACGACTTCGAGGCCGACGCCCACTGGTGGTCA
GAGAGGACGCACAAGAATTGAGCGACATGGAGAACGAATTCTACTATCGCTACCCAAGCTTCCAGGACGTGCAC
GTGATGGTCTTCGTGGGCTTCGGCTTCCTCATGACTTTCCTGCAGCGCTACGGCTTCAGCGCCGTGGGCTTCAAC
TTCCTGTTGGCAGCCTTCGGCATCCAGTGGGCGCTGCTCATGCAGGGCTGGTCCACTTCTTACAAGACCGCTAC
ATCGTCGTGGGCGTGGAGAACCTCATCAACGCTGACTTCTGCGTGGCCTCTGTCTGCGTGGCCTTTGGGGCAGTT
CTGGGTAAAGTCAGCCCCATTAGCTGCTCATCATGACTTTCCTTCCAAGTGACCCCTCTTCGCTGTGAATGAGTTC
ATTCTCCTTAACCTGCTAAAGGTGAAGGATGCAGGAGGCTCCATGACCATCCACACATTGGCGCCTACTTTGGG
CTCACAGTGACCCGGATCCTCTACCGACGCAACCTAGAGCAGAGCAAGGAGAGACAGAATTCTGTGTACCAGTCG
GACCTCTTTGCCATGATTGGCACCCTCTTCTGTGGATGTACTGGCCAGCTTCAACTCAGCCATATCCTACCAT
GGGGACAGCCAGCACCGAGCCGCCATCAACACCTACTGCTCCTTGGCAGCCTGCGTGCTTACCTCGGTGGCAATA
TCCAGTGCCTTGCACAAGAAGGGCAAGCTGGACATGGTGCACATCCAGAATGCCACGCTCGCAGGAGGGGTGGCC
GTGGGTACCGCTGCTGAGATGATGCTCATGCCTTACGGTGCCTCATCATCGGCTTCGTCTGCGGCATCATCTCC
ACCCTGGGTTTTGTATACCTGACCCCATTCCTGGAGTCCCGGCTGCACATCCAGGACACATGTGGCATTAAACAAT
CTGCATGGCATTCTGGCATCATAGGCGGCATCGTGGGTGCTGTGACAGCGGCCTCCGCCAGCCTTGAAGTCTAT
GGAAAAGAAGGGCTTGTTCCATTCTTTGACTTTCAAGGTTTCAACGGGGACTGGACCGCAAGAACACAGGGAAAG
TTCCAGATTTATGGTCTCTTGGTGACCCTGGCCATGGCCCTGATGGGTGGCATCATTGTGGGGCTCATTTTGAGA
TTACCATTCTGGGGACAACCTTCAGATGAGAACTGCTTTGAGGATGCGGTCTACTGGGAGATGCCTGAAGGGAAC
AGCACTGTCTACATCCCTGAGGACCCACCTTCAAGCCCTCAGGACCCCTCAGTACCCCTCAGTACCCATGGTGTCC
CCACTACCCATGGCTTCCTCGGTACCCTTGGTACCCTTAGGCTCCCAGGGCAGGTGAGGAGCAGGCTCCACAGACT
CTCCTGGGGCCCAGAGGAGCTGGTGCTGACCTAGCTAGGGATGCAAGAGTGAGCAAGCAGCACCCCCACCTGCTG
GCTTGGCCTCAAGGTGCCTCCACCCCTGCCCTCCCCTTCATCCCAGGGGGTCTGCCTGAGAATGGAGAAGGAGAA
GCTACAAAGTGGGCATCCAAGCCGGGTCTGGCTGCAGAAGTTCTGCCTCTGCCTGGGGTCTTGGCCACATTGGA
GAAAAACAGGCTCAAAGTGGGGCTGGGACCTGGTGGGTGAACCTGAGCTCTCCAGGAGACAACCTAGCTGCCAG
TCACCACCTATGAGGCTCTTCTACCCCGTGCTGCACCTCGGCCAGCATCTCCTATGCTCCCTGGGTCCCCCAGA
CCTCTCTGTGTTGTGTGCGTGGCAGCCTCCAGGAATAAACATTCTTGTGTCTTTGTAAAAA

AA

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FIGURE 1304

MAWNTNLRWRLPLTCLLLQVIMVILFGVFVRYDFEADAHWWSETRHKNLSDMENEFYYRYP SFQDVHVMVFVGFG
FLMTFLQRYGFS AVGFNFLLAAFGIQWALLMQGWFHFLQDRYIVVGVENLINADFCVASVCVAFGAVLGKVSP IQ
LLIMTFFQVTLFAVNEFILLNLLKVKDAGGSMTIHTFGAYFGLTVTRILYRRNLEQSKERQNSVYQSDLFAMIGT
LFLWMYWPSFNSAISYHGDSQHRAAINTYCSLAACVLTSVAISSALHKKGKLD MVHIQNATLAGGVAVGTAAEMM
LMPYGALIIGFVCGIISTLGFVYLTPFLESRLHIQDTCGINNLHGIPGIIGGIVGAVTAASASLEVYGKEGLVHS
FDFQGFNGDWTARTQGKFQIYGLLVTLAMALMGGIIVGLILRLPFWGQPSDENC FEDAVYWEMPEGNSTVYIPED
PTFKPSGSPSVPSVPMVSPLPMASSVPLVP

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FIGURE 1305

GTTTTTGTGCAGGAACAGCCCCCTCCCGTCTTTGTCCTGGCGGTGAGCACCCAGGGCTAAGCTTTTGAACACTTTC
TTTGTGTTTGGATTGAGCCAGGCAATGCATATTTGCTTTTCAATTTCTTCTTGAGCTTGAGGAGCTCCTGGGTGCA
AATCTTGAAAAATGAGGATCTCTGAGCCTTTCCAGGCCAGCTCTTTGTTTTGTAGCAGACAATTGAGGCTTTGAA
AAGGAAAGTGGGTGGGGGCACCCACAGGTGGCCCTCATCACCCAATTGCCAGTGCCTGCAGGCTGCTTCAGCAG
AGGCCAGAGTCAAAGAGGACTTAAAACCAGCTGTCGTTTCTCCCTTAGCTTCTGTGTATGAGAGAAACGACTTC
TGTTTTTCAAAGTAAGAACAAGGAGGAATTTGTTTCTAAAAGAACATTAAAACACAGGCTCGTGGTCTAAAAGCA
AATCGTTCAGCAGGATGTTTCAGGGCCTTAAAGCACAGTCAGCAGGACTCAGCATCTCCAGCACCTGCTCTCCGG
TTGTCATGGTAACATCATCCCCAACCAACCACCTTGTCAGCCGAGAGACAGCAATCATAAGGAGGGACCTCGG
TTTCCCCCGAGGATCCTGGGCTTCCTTTCTGAAACGCTTGCTTCTGAGCTCAGCAACCAGGAACACCAGGCCAGC
CCATCCCCAGCACCTCTGTGGAGATGAGGGACAAAGTCTACAGTCCCTCTTCTGTTCTGATGAGAAAGGGAGG
GAAGAAAAACATACCCCGAGCGCTGCAATATGGTCATGACACTTTCAAAAAGCCTGTGCTATGGAGTCATGATCA
GAAACCAGAGTGTGGAGAGGGTCAGCAGCCTGCCTCAGAGCAGCCAGCTAGGCGGGGAGTGGTAAATTTGGGACT
TGTACCCAGGCATGACTGGCTCCGAGCCCAGTGCTCCACTCTATGGAATGTTCCCTGGGCTCAGTTGCTTTCCT
TTCTTTTGAGGCCGCGGGCTGCTGCCACTCTGGCAGCTGGTGAGTT**AGCT**TGGAGGGCAACATTCCAAAGCAGGG
GCAGCATGCTGCTTTCCTCCTGTGCCACTCCTGCGGGGAAGTCCGTTGACTCCCACCGCTGAAGGGAGCTGGCA
ACACCAGGATGAGGTCCAGGGGACGGGAGCAGGTACCCACTGTCTGTCTACCTTCCCAGTGGAAAAGCACGGAC
AGGCCAGCCCTTGCGGGGGCAGGCAGAGGACAGAGTTGGCTTTGCGCGGTCTCTGCCTGCTGAGCAGTTCCAATT
CCTCTCATGGGAGAAACAAGGAGGCAGTCGCTTGTCATGTTCCAGAAGTTTTACTGGGGAGGAGGAAGCGGACA
GAGGAAGCTGTGTGTGCATGTGAAGGGGTGGGCAGGGTGGGAGGGATGCACGCGTATGTGAGCATAGCATGTGTG
AGTACTACACACATCTCCATGCAGAAGCACAACTGGGCAGCCCTGGCTTCCAGCTCTGGGCTTCAGCACAAACAGA
CACCAGCCTGTGGTCTCTCAGAAGCCAGGGAGACCACATCGGGCTCAGGACGTTTTACCCAAAGTCCAGAGTTTT
TATGCTCTCCCTGGCATTCTCCATAAAGAAGGGAAGGTCAGATGACCCCTTAGATCTGTGTCTCTGGGAATTT
CCTTGGGCTGGTTTAGACACGATGCCCTCTTTTTCTCAGGATAGCAGATAACCTGCTTTGAAAGAGGGCTTAATT
CTGTGGGTCCATAAATTTCTCCTTTCTCTCTCTCTTCTGTGTGTGTGTGTGGGAAAATGGCAAGTTTCCAATA
CCAGCTTTGGAGGAACGATTACGTTTTCCCTCCAATTTCAAGTCCGAAAGACCAGAGCCCTCATTCCAAAGCCCC
CCACCCAGATGGATTTTTTCGTTTCATTTGTTCATCCGTCCCATGGGAGGGCCCCATGTCTCCTCAGAACCCATCC
TGGAGGCAGCAGGTGCGGTAGAGTGAGTTTGGCCTGCTCATGACCTCCACCCCTGAGATTGTGAACAAGGATGTC
TGGGGCGATGCTGAGAATGTTTTTGAAGCTGCTCCAGATGACGCTGATGATCACACCAGATTGAGTGCTGCGAT
CGCCTTGAGTCCAGCCTCTGCATAAACGAGGTTCTCATAAACAAAGTTCACTCTACCTAAGCTAAGTCTATGTGA
GCAAACCCACTTTCATCCTTTGTACCTGGAGACCTGGTTACACTAACCTGATACTGACCTGTTTCATGTAGCTGGAA
TGGTGTGTTTTTCATGCAGTGTGGACCAAGCAATGGCATGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTTTGTGTATGCGTTTACACTTGTGTGTGTATATGTGCATGTAGATGCTGCATAAATGATTTTTGATGTCAAAG
ACAAACACATTCCATTGTTTTAAATATTCTATTATGTAAACAATACGCAGAGGGACCATATCTACTCTTGTCTATA
TTATTTGTGATGGTAAAACATGCATTTGCAATAAATAAGCTTTCTGGGAAGGCAAGCAGTATTGGAGCCAAACG
ACTGCTCGGAACATGTGTGTGTATCTCGGTTTCATATCAAGTCCAAAGCTAATGGAGCCTTCCCCGCCATCCAG
GGAGGAACACCAGGACCCCGGAGTTTCTTCTTAGTGCTATATTTTAAAGTTGCATTGACGTTTTCTCCCTTCC
TTTTGTGCAAGTTGGAAGTAGCAGTGTTCTAAAAGATGGTTTGACGTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGT
TGTATCTGCTTTGTGTTTGGAAATAAAAAATCTCTATTTTGGTCTATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1306

MVQQDVQGLKAQSAGLSISQHLLSGCHGNIIPNPTTLSSRETAIIRDLGFPRGSWASFLKRLLLSSATRNRPA
HPQHLCGDEGQSPTVPLPVLMRKGGKKTYPERLQYGHDTFKKPVLWSDQKPECGEGQQPASEQPARRGVVNLGL
VPRHDWLRACSTLWNVPWASVAFLSFAGRGLLPLWQLVS

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FIGURE 1307

GGAAGTTTAGGTTAACTGTCTTAAATTTCCAAAGCTGTAATCATTATTTTCATTCTCAAAGTGATGGCCTTGTGT
TTTGCTCCTCTCCTCCAGGGCCAGACTGAGCCCAGGTTGATTTCAGGCGGACACCAATAGACTCCACAGCAGCTC
CAGGAGCCCAGACACCGGCGGCCAGAAGCAAGGCTAGGAGCTGCTGCAGCCATGTCGGCCCTCAGCCTCCTCATT
CTGGGCCTGCTCACGGCAGTGCCACCTGCCAGCTGTCAGCAAGGCCTGGGGAACCTTCAGCCCTGGATGCAGGGC
CTTATCGCGGTGGCCGTGTTCCCTGGTCCTCGTTGCAATCGCCTTTGCAGTCAACCACTTCTGGTGCCAGGAGGAG
CCGGAGCCTGCACACATGATCCTGACCGTCGGAAACAAGGCAGATGGAGTCCTGGTGGGAACAGATGGAAGGTAC
TCTTCGATGGCGGCCAGTTTCAGGTCCAGTGAGCATGAGAATGCCTATGAGAATGTGCCCGAGGAGGAAGGCAAG
GTCCGCAGCACCCCGATGTAACCTTCTCTGTGGCTCCAACCCCAAGACTCCCAGGCACATGGGATGGATGTCCAG
TGCTACCACCCAAGCCCCCTCCTTCTTTGTGTGGAATCTGCAATAGTGGGCTGACTCCCTCCAGCCCCATGCCGG
CCCTACCCGCCCTTGAAGTATAGCCAGCCAAGGTTGGAGCTCAGACCGTGTCTAGGTTGGGGCTCGGCTGTGGCC
CTGGGGTCTCCTGCTCAGCTCAGAAGAGCCTTCTGGAGAGGACAGTCAGCTGAGCACCTCCCATCCTGCTCACAC
GTCTTCCCCATAACTATGGAAATGGCCCTAATTTCTGTGAAATAAAGACTTTTTGTATTTCTGGGGCTGAGGCT
CAGCAACAGCCCCCTCAGGCTTCCAAAA

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FIGURE 1308

MSALSLLILGLLTAVPPASCQQGLGNLQFWMQGLIAVAVFLVLVAIAFAVNHFWCQEEPEPAHMILTVGNKADGV
LVGTDGRYSSMAASFRSSEHENAYENVPEEEGKVRSTPM

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FIGURE 1309

TTTGCCTCGGGGAATTAAAAGAGGGGAAAAAAGCCCGAAGAAAACTCACGCCCCAAACAAAACGCAAGGAGAG
GAGGGCGCGCGGCTGCAGCCCTCGCCCGCGTCCCCGGCCGCGGCGTGATGCGCGCGGACCAGCCCGCGACGCCC
GGGCTGCCGCTGTCCCGCACCTGGACGCTGGCGCGGTGGCCGCGCCCCAGCCTCGATCGCTCGCCGCGGCGACT
CGGCCCCAGGCTTCCGGCGCCGGTGGGGGCCCTCGCTCTCCATGGGGCTGAGGGACTGGCTGAGAACCCTGTGCT
GCTGCTGCCGGTGCAGTGCTTGGAGGAGCGCGCCCTGCCTGAGAAGGAGCCCCCTCGTCAGTGATAACAATCCAT
ATTCTCATTTGGAGCAACTCTGGTGAGGGATGATGAGAAGAATTTATGGAGTATGCCCCATGATGTGTCCCACA
CAGAGGCAGACGACGACAGAACCCTGTACAATTTGATAGTCATTTCGTAATCAGCAGGCCAAAGACTCAGAGGAGT
GGCAGAAGCTCAACTATGATATCCATACCCTGCGGCAGGTTTGAAGGGAAGTAAGAAACAGATGGAAGTGCATCT
TAGAAGATTTAGGTTTTCAAAGGAAGCTGACTCTTTGTTGTCAGTGACTAAACTCAGCACCATCAGTGATTCTA
AAAAACAAGGAAAGCTCGAGAGATGTTGTTAAACTGGCTGAAGAAACCAGTATTTTCCCAACAAGTTGGGAGC
TCTCAGAGAGATATCTTTTGTGTTGGACCGTCTCATTGCACCTTGATGCTGCAGAAGAGTTCTTTAAGCTTGCTC
GTCGAACCTTACCCCAAGAAGCCTGGGGTTCCATGCCTGGCAGATGGCCAGAAAGAACTGCACCTGTGGGGGGACC
TCTCATGCAGACTTGACATATGCAGGGAGTATTGCACTGAAGATCTTTGCTGGACCTTCTTCTCTTCAGAAGAT
AATTTTCAAAGGGAGCAATGCTGTGAATGCAGCTTGCTTCTCTACAGATTGAGAAGTCCAGCTTCAAAGTT
ACTTGCCACTTAAGCAAGGAACCTTGTCAAGAGATCATGGTTTACTGAAAAGACTTTAAGGATTTGTAAGG
TTAATCCATAGATTGCTGAGAACAATGGAAATATTTTTATTTTACAGATTTTGCACCTTCTGAATTCAGGTTAAA
AACTAAGTTGATTTAGTCTGCTTAGAGGACTGTGACTTGAAAATTTTATATACCAATGAGCTTTTGGTAGCG
TCCACAATGTTTAAAATATTTATAGGCGAGATCCGTGTTCTCCATTTATTAATGCATTGTAGACCAATTTAACT
GCTGTGTTTCAAGAAAATTTCTTCTAGTTTAATAAGCAAGCTAAAAGTTTATTTTTTATATTTAGTGCTTAATC
TTTGCCTCATGTTATGTAAAATTAGCCTGCAGATATTTTCTCTCAATTCTGTAGACTCTCGCAAGATAAACATTC
AAACAGTGAAACAAACAATAAAATAAATAAACCT

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FIGURE 1310

MGLRDWLRTVCCCCRCECLEERALPEKEPLVSDNNPYSSFGATLVRDDEKNLWSMPHDVSHTEADDDRTLYNLIV
IRNQQAKDSEEWQKLNVDIHTLRQVRREVRNRWKCILEDLGFQKEADSLSVTKLSTISDSKNTRKAREMLLKLA
EETSIFPTSWELSERYLFVVDRLIALDAAEEFFKLARRTPKKPGVPCCLADGQKELHLWGDLSCLAHMQGV LH

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FIGURE 1311

TATTGCTGGCTCGTTTGTGCCACCTTGCACCTTCTGTCATGCCCCACGCCTGCTGGGCAGACCCCTTACAAGCATC
TATACCAGCTTCTGCGCCTCAACTTCAGCGGGGAAACCCTGGACAGCACTGACCCCTCCAATTTGTCCCTGATG

GCCTATGCAGCCCGAACCATGGGCAAGTTGGCCTATGAGGGGGTGTCTCCCGCAAGACCTACTTCTCTGAAGAG
GATGTCTGTGGCTGCCTGGAGGCTGGCATCAGGACGGAGGAGGAGTTTCAGCTGCTGCACATCTTCCGTCGGGAT
GCCCTGAGGTTTTTCTGGCCCCATGTGTGGAGCCAGGGCGTGCAGGCACCTTCGTGTTACCGTGCCCGCCATG
CAGGAATACCTGGCTGCCCTCTACATTGTGCTGGGTTTGC GCAAGACGACCCTGCAAAAGGTGGGCAAGGAAGTG
GCTGAGCTCGTGGGCCGTGTGGGGAGGACGTCAGCCTGGTACTGGGCATCATGGCCAAGCTGCTGCCTCTGCGG
GCTCTGCCTCTGCTCTTCAACCTGATCAAGGTGGTTCCACGAGTGTTTGGGCGCATGGTGGGTAAAAGCCGGGAG
GCGGTGGCTCAGGCCATGGTGTGAGAGATGTTTCGAGAGGAGGACTACTACAACGATGATGTTCTGGACCAGATG
GGCGCCAGTATCCTGGGCGTGGAGGGCCCCCGGCGCCACCCAGATGAGCCCCCTGAGGATGAAGTCTTCGAGCTC
TTCCCCATGTTCAAGGGGGGGCTTCTCTCTGCCCCACAACCGAGCTGTGCTAGCTCAGCTTGGCTGCCCCATCAAG
AACCTGGATGCCCTGGAGAAATGCCAGGCCATCAAGAAGAAGCTGGGCAAGCTGGGCCGGCAGGTGCTGCCCCCA
TCAGAGCTCCTTGACCACCTCTTCTTCCACTATGAGTTCCAGAACCAGCGCTTCTCCGCTGAGGTGCTCAGCTCC
CTGCGTCAGCTCAACCTGGCAGGTGTGCGCATGACACCAGTCAAGTGACAGTGGTGGCAGCTGTGCTGGGCAGC
GGAAGGCATGCCCTGGATGAGGTGAAGTTGGCCTCCTGCCAGCTAGATCCTGCTGGGCTGCGCACACTCCTGCCT
GTCTTCCTGCGTGCCCGGAAGCTGGGCTTGCAACTCAACAGCCTGGGCCCTGAGGCCCTGAAGGACCTCCGAGAC
CTGTTGCTGCATGACCAGTGCCAAATTACCACACTGCGGCTGTCCAACAACCCGCTGACGGAGGCAGGTGTTGCC
GTGCTAATGGAGGGGCTGGCAGGAAACACCTCAGTGACGCACCTGTCCCTGCTGCACACGGGCCCTGGGGACGAA
GGCCTGGAGCTGCTGGCTGCCAGCTGGACCGCAACCGGCAGCTGCAGGAGCTGAACGTGGCGTACAACGGTGCT
GGTGACACAGCGGCCCTGGCCCTGGCCAGAGCTGCCCCGGGAGCACCTTCCCTGGAAGTGTACACCTCTACTTC
AATGAGCTGAGCTCAGAGGGCCGCCAGGTCTTGCAGAGACTTGGGGGGTGTGCTGCTGAAGGTGGTGGCCGGGTGGTG
GTGCTACTGACAGAGGGGACGGCGGTGTGAGAATACTGGTCAGTGATCCTCAGTGAAGTCCAGCGGAACCTCAAT
AGCTGGGATCGGGCCCCGGTTTCAGCGACACCTTGAGCTCCTACTGCGGGATCTGGAAGATAGCCGGGGTGCCACC
CTTAATCCTTGGCGCAAGGCCCAGCTGCTGCGAGTGGAGGGCGAGGTGAGGGCCCTCCTGGAGCAGCTGGGAAGC
TCTGGAAGCTGAGACACTGGCGGCAGGCACCTAGCTATGTGACCACTGGCCCTAAACCTTTTCCCTCTGTGGCCT
CCTGGCTTGCACTGCTCCCTCTAGAAAGATTCTTTCAGGTCTGGAGGCAGAGGAATGGGCATAGCTGAGCCAGTT
GCCCTCCTAGGGCATGTTTGACCAGGACTGAGTCTGGAATCTCCAAGTTAAAGATGGTGAATCAATGCTTCGGGC
TTGGAGATGGAACATGCCCTCCTCTCCATTTCAGCTAGAAGGACCAAAGCATGTGGCATTGATGGCCAGAGTGCC
CTGAAGCACCCTACCAACCTTGCCCTCCCCCTCCTCTCAAAGAGCCTCTGATTGTGTACCAAGGGGCTCACATC
TTATGTCTGCCATGCCAGGGGTGTGCCATCCAGATGTGTTGGAAGCTTCCCCCTCCTGCCTTATGCTCACCTGTG
GACACCGAGGATGCCCTCACATTGGTGCTCTCTCCTCATCCTCATGCCCCCTTTGCCACAATGGTATGATGGCTT
GGTAGCCCCCTCGAGGCAGATGCACCTGACTTGCTGCTATTAAAAAGCCGTGTGCCTTCTACCAAAAAAAAAAAAA
AAAA

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FIGURE 1312

MAYAARTMGKLAYEGVSSRKTYFSEEDVCGCLEAGIRTEEEFQLLHIFRRDALRFFLAPCVEPGRAGTFVFTVPA
MQEYLAALYIVLGLRKTTLQKVGKEVAELVGRVGEDVSLVLGIMAKLLPLRALPLLFNLIKVVPRVFGRMVGKSR
EAVAQAMVLEMFREEDYYNDDVLDQMGASILGVEGPRRHPDEPPEDVFELFPMFMGGLLSAHNRAVLAQLGCP
KNLDALENAQAIAKKLGLGRQVLPPSELLDHLFFHYEFQNRFSAEVLSSLRQLNLAGVRMTPVKCTVVAAVLG
SGRHALDEVNLASCQLDPAGLRTLLPVFLRARKLGLQLNSLGPEACKDLRDLHLDQCQITTLRLSNNPLTEAGV
AVLMEGLAGNTSVTHLSLLHTGLGDEGLELLAAQLDRNRQLQELNVAYNGAGDTAALALARAAREHPSLELLHLY
FNELSSEGRQVLRDLGGAAEGGARVVVSLTEGTAVSEYWSVILSEVQRNLNSWDRARVQRHLELLLRDLED
SRGATLNPWRKAQLLRVEGEVRALLEQLGSSGS

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FIGURE 1313

TTCCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAAATGGTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAAACCCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGGGAAGCAATACCAACAGAGAGCATTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTACTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCCACCTAAAG
ACTGGGAATTCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGC AAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAAATGATGAAAAATAGGCTTGCCACTTTCTCTTATTT
TAATTCCATGGTAGTCAATGAAGTGGCTGCCACTTTAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTCTGAATTGCTAAAAAAAAAAAAA

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FIGURE 1314

MVVDFTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCS SCQRSWASAKLQILCHTYW
EHWTSQGQVRMRLEFGQRCQKCSWSQYEMPEFSSDSTMRI LSNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTKPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDEAKEAKGSGYEKLGPSRDPDP
LNICVFILLLVFIVVKCFTSE

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FIGURE 1315A

ATGCCCCCTCGGCCTGGGCCATTGCTGGCTGCTAGGGGGCTCCTGCTCCATGGGGGTAGCTCTGGCCCCAGC
CCCCGGCCCCAGTGTGCCCCGCTGCGGCTCTCTACCGAGACCTCCTGTCTGCCAACCGCTCTGCCATCTTTCTG
GGCCCCAGGGCTCCCTGAACCTCCAGGCCATGTACCTAGATGAGTACCGAGACCGCCTCTTTCTGGGTGGCCTG
GACGCCCTCTACTCTCTGCGGCTGGACCAGGCATGGCCAGATCCCCGGGAGGTCTGTGGCCACCGCAGCCAGGA
CAGAGGGAGGAGTGTGTTGAAAGGGAAGAGATCCTTTGACAGAGTGCGCCAACTTCGTGCGGGTGTACAGCCT
CACAACCGGACCCACCTGCTAGCCTGTGGCACTGGGGCCTTCCAGCCACCTGTGCCCTCATCACAGTTGGCCAC
CGTGGGGAGCATGTGCTCCACCTGGAGCCTGGCAGTGTGGAAAGTGGCCGGGGGCGGTGCCCTCACGAGCCCAGC
CGTCCCTTTGCCAGCACCTTCATAGACGGGGAGCTGTACAGGGTCTCACTGCTGACTTCCTGGGGCGAGAGGCC
ATGATCTTCCGAAGTGGAGGTCTCTGGCCAGCTCTGCGTTCCGACTCTGACCAGAGTCTCTTGACAGACCCCCGG
TTTGTGATGGCCGCCCGGATCCCTGAGAATCTGACCAGGACAATGACAAGGTGTACTTCTTCTCTCGGAGACG
GTCCCTTCGCCCCGATGGTGGCTCGAACCATGTCACTGTACGCCGCTGGGCCGCGTCTGCGTGAATGATGCTGGG
GGCCAGCGGGTGTGTTGAACAAATGGAGCACTTTCCTCAAGGCCAGGCTGGTCTGCTCGGTGCCCGGCCCTGGT
GGTGCCGAGACCCACTTTGACCAGCTAGAGGATGTGTTTCTGCTGTGGCCCAAGGCCGGGAAGAGCCTCGAGGTG
TACGCGCTGTTTACGACCCGTCACTGCCGTGTTCCAGGGCTTCGCCGCTGTGTGTGTACCATGTCAGACATCTGG
GAGGTTTTCAACGGGCCCTTTGCCACCGAGATGGGCCTCAGCACCAGTGGGGGCCCTATGGGGGCAAGGTGCC
TTCCCTCGCCCTGGCGTGTGCCCCAGCAAGATGACCGCACAGCCAGGACGGCCCTTTTGGCAGCACCAAGGACTAC
CCAGATGAGGTGCTGCAGTTTGCCCGAGCCACCCCTCATGTTCTGGCCTGTGCGGCCCTCGACATGGCCGCCCT
GTCCTTGTCAAGACCCACCTGGCCAGCAGCTACACCAGATCGTGGTGGACCGCGTGGAGGCAGAGGATGGGACC
TACGATGTCAATTTCTGGGGACTGACTCAGGGTCTGTGCTCAAAGTCATCGCTCTCCAGGCAGGGGGCTCAGCT
GAACCTGAGGAAGTGGTTCTGGAGGAGCTCCAGGTGTTTAAAGTGCCAACACCTATCACCGAAATGGAGATCTCT
GTCAAAGGCAAAATGCTATACGTGGGCTCTCGGCTGGGTGTGGCCAGCTGCGGCTGCACCAATGTGAGACTTAC
GGCACTGCCTGTGCAGAGTGTGCTGGCCGGGACCCATACTGTGCTGGGATGGTGCCTCCTGTACCCACTAC
CGCCCCAGCCTTGGAAGCGCCGGTTCGCCGGCAGGACATCCGGCACGGCAACCCTGCCCTGCAGTGCCTGGGC
CAGAGCCAGGAAGAAGAGGCAGTGGGACTTGTGGCAGCCACCATGGTCTACGGCACGGAGCACAAATAGCACCTTC
CTGGAGTGCCTGCCAAGTCTCCCCAGGCTGCTGTGCGCTGGCTCTTGACAGAGGCCAGGGGATGAGGGGCCTGAC
CAGGTGAAGACGGACGAGCGAGTCTTGACACGGAGCGGGGGCTGCTGTTCCGAGGCTTAGCCGTTTCGATGCG
GGCACCTACACCTGCACCACTCTGGAGCATGGCTTCTCCAGACTGTGGTCCGCTGGCTCTGGTGGTGATTGTG
GCCTCACAGCTGGACAACCTGTTCCCTCCGGAGCCAAAGCCAGAGGAGCCCCCAGCCCGGGGAGGCCCTGGCTTCC
ACCCACCCAAAGGCCTGGTACAAGGACATCCTGCAGCTCATTGGCTTCGCCAACCTGCCCCGGGTGGATGAGTAC
TGTGAGCGCGTGTGGTGCAGGGGCACACGGAATGCTCAGGCTGCTTCCGGAGCCGGAGCCGGGGCAAGCAGGCC
AGGGGCAAGAGCTGGGCAGGGCTGGAGCTAGGCAAGAAGATGAAGAGCCGGGTGCATGCCGAGCACAAATCGGACG
CCCCGGGAGGTGGAGGGCCACGT**TAGA**AGGGGGCAGAGGAGGGGTGGTCAGGATGGGGCTGGGGGGCCACTAGCAGC
CCCCAGCATCTCCCACCCACCCAGCTAGGGCAGAGGGGTGAGGATGTCTGTTTGCCTCTTAGAGACAGGTGTCTC
TGCCCCACACCGCTACTGGGGTCTAATGGAGGGGCTGGGTTCTTGAAGCCTGTTCCCTGCCCTTCTCTGTGCTC
TTAGACCCAGCTGGAGCCAGCACCTCTGGCTGCTGGCAGCCCCAAGGGATCTGCCATTGTTCTCAGAGATGGC
CTGGCTTCCGCAACACATTTCCGGGTGTGCCAGAGGCAAGAGGGTTGGGTGGTCTTTCCAGCCTACAGAACA
ATGGCCATTCTGAGTGACCCTCAGAGTGGGTGTGTGGGTGCGTCTAGGGGGTATCCCGGTAGGGGGCCTGCAGGG
AGCCAGAGGGTGGAAATGGCCTCTAAGCTAGCACCCCGTAAGAAGAGCCTACCTGACCGACTTGGGGAGGGAACA
CAGAGGTGTTGGGAAGGTGGAGCAACAATGCACCTCCCTCCTGTGCGCCGTGATATCTTGGTGGCTCCCTGCC
ACTGCCACCGCCTCTTCTCCATCTGAGAATCACGGAGAGGTGTAGATAATCTAGAGGCATAGACTGCTAGAGCC
CCCAGGATCTGGGGTGGTCAGGGCTCAGGCTTCACTTTGTAAACCAGGTGGGGGCATCTCACAGCCTGACTTCC
CTTCCCAGGCCAGGGTTGCTGGGATGCCTGCCCCCTCTGAGAGGACCCCTCCCATTTGTCAGGCTCTCCATGT
CCACGAGCGGGGAGGGTGGGTTCTGGGGCATTGTTGTCCCTTGTGTCTGTGGACTAGAGATAGGGTGGGGGAGC
TGGGGAAGGGTGCAGGCGGGAAGAGTGGGCTGTCTTTCCAGGGTGTGCAAGCATGCCGCAGCCCTGGAGGCTG
GGAATGTGAGGCTCTGTGAGCCCTGCAGCCCTCAGAATCAGGGCCAGGGATGCAGAAGATTGAGAGGATATGGA
GATGGATAGAGGGCAGGAGACCTTAGGATAGATTGTGGGACCCAGGCAGGAACAGGTGTCCACAAGAACTCAGG
ATGGCATCAGTTAGCTCAGAAGCCACCTGGAAGACCCAGTGTTCATCTCTGGAATCTCTGTTTTATGCTAAAT
GGATTTAGGAAGACTGTTTTTCTTTTAAAGGGGAAACAAGGTAGAGAAAAGGACGAAGAAGTGTAAAGTCCCGCTG

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FIGURE 1315B

ATTCTCGGGGGTAAGGCTCGGATGGCAAGGACGCGTTCTGCCTGGGCATGTAGGGGAGGTGTTTTTGCCATCACC
AGTTTCTCAGGCTGGGGAGCACAGAGGGGAGGAGGAGGACTAAATGAAAAGTTGTTCCCAGCCTGCACATGAACA
CATTCATGACACACAAAACCTGGCTGGAAGGAGATAAGAGCACTGGGTTTGAGATTCCCTCCATTAACAACCAA
GACAAAGAAAGGAGGGGAAAAAAGATAAAAAGCAAGCCAGGGTTCCCTGCCCTATTGAAACTCAAACCCAGACT
GCCTTGGGTTTTATCTTTCCCTTACCCCTGGCACCTCCAGAGAACTGGGACCTGAAATAGTCCCTCCGTTCTCCC
CTTTGACCATGTAATAAATGAACCAGAAGCACTGAGATTAACCTATCAACGCCCTGAGAAGCCTTCCAGCCTGCG
GTGCTGTCTGCTGGGAGGTCAGCTGGTCAAGGCAGAGGAGGAGAGGAGGAAAGGATGGGGGCTGAAGAGCAGAAG
GGAGGGGAGACAGAGGGGATTAAAGAGGGGAGGAGAGAGTGCAGAGCTCCAGGAAAGGGTATCAGAGCTGCAGCC
AGCTCTGCCCTCTACCCTAGGGAGGCCAGAAAGACACAAACAGCCCTCCGGGCCTTTACGCTGGACTCTGGCTTG
GCAGGCTCCAGGCAGGGTCCTCTGGGAAGTTACTCTAGAAAACGAAGGGAGGAGGAGCACAAAGATCCTCAGCAAC
GAACACCTGCACTTAGAAAAAGTGGACAGCTTCTGCCAACCACACCCTACCCATGGTACTGTATGCTATTAACCTC
CTGGAAACGCCCCGTAAATGCGAGTTGTTTTTGTATTTGTGTGTTGAGATGGGCCTTGTTGGTTTTCTCTGTACTCA
GAGCACATTTCTTGTAATTACTATTGTTATTTTTATTGTGTCATGACTGCCCCCTGAGCTCTGGTGAGAAAAGCTGAA
TTTACAAGGAAAGGGATGAAGTTAATATTTGCATCACATAATTATATCATTACTGTGTATCTGTGTATTGTACTA
AATGGACTGATGCTGCGCACATGAGCTGAAAATGAAGAGCCCTCCCATCC

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FIGURE 1316

MAPSAWAICWLLGGLLLHGGSSGSPSPGPSVPRRLRLSYRDLLSANRSAIFLGPPQGSNLQAMYLDEYRDLFLGGL
DALYSLRLDQAWPDPREVLWPPQPGQREECVRKGRDPLTECANFVRVLQPHNRTHLLACGTGAFQPTCALITVGH
RGEHVLHLEPGSVESGRGRCPHEPSRPFASFIDGELYTGTLADFLGREAMIFRSGGPRPALRSDSDQSLLDPR
FVMAARIPENSDDNDKVYFFFSETVPSPDGGSNHVTVSRVGRVCVNDAGGQRVLVNKWSTFLKARLVCSVPGP
GAETHFDQLEDVFLWPKAGKSLEVYALFSTVSAVFQGFVAVCYHMADIWEVFNGPFAHRDGPQHGWGPYGGKVP
FPRPGVCP SKMTAQPGRPFGSTKDYPDEVLQFARAHPLMFWPVRPRHGRPVLVKTHLAQQLHQIVVDRVEAEDGT
YDVIFLGTDSGSVLKVIALQAGGSAEPEEVVLEELQVFKVPTPITEMEISVKRQMLYVGSRLGVAQLRLHQCETY
GTACAECCCLARDPYCAWDGASCTHYRPSLGKRRFRQDIRHGNPALQCLGQSQEEEAVGLVAATMVYGTENSTF
LECLPKSPQAAVRWLLQRP GDEGPDQVKTDERVLHTERGLLFRRLSRFDAGTYTCTTLEHGFSQTVVRLALVVIV
ASQLDNLFPPEPKPEEPPARGGLASTPPKAWYKDILQLIGFANLPRVDEYCERVWCRGTTECSGCFRSTRSRGKQA
RGKSWAGLELGKKMKSRVHAEHNRTPREVEAT

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FIGURE 1317

AAAATTTGAAGACAAGATGGGCACCTACTCTACAATTCTGATAAAAAACAGAGGTCATCGAATGTGGGAACTACTG
TGGAGTACGCATCATTCACTCTTTGATTGCAGAGTTCTCACTGGAAGAATTGAAGAAAAGCTATCACCTGAATAA
AAGTCAAATTATGTTGGATATGCTAACTGAGAATTTGTTCTTCGATACTGGTATGGGAAAAAGTAAATTTTTGCA
AGATATGCACACACTCCTACTCACAAGACACCGCGATGAACATGAAGGTGAAACAGGAAATTGGTTTTCCCCATT
TATTGAAGCATTACATAAAGATGAAGGAAATGAAGCAGTTGAAGCTGTATTGCTTGAAAAGTATCCATCGGTTCAA
CCCAATGCATTCAATTGCCAAGCGTTGGCAAGACATTTCTACATTAAAAAGAAGGACTTTGGCAATGCTCTAAA
CTGGGCAAAAACAAGCAAAAATCATAGAACCTGACAATTTCTATATCTCAGATACACTGGGTCAAGTCTACAAAAG
TAAAAATAAGATGGTGGATAGAGGAAAACGGAGGAAACGGGAACATTTTCAGTTGATGATCTAATTGCTCTTTTGG
TTTAGCAGAACATGCCTCAAGTGCATTCAAAGAATCTCAACAGCAAAGTGAAGATAGAGAGTATGAAGTGAAGGA
AAGATTGTATCCGAAGTCAAAAAGGCGGTATGATACTTACAATATAGCTGGTTATCAAGGAGAGATAGAAGTTGG
GCTTTACACAATCCAAATTTCTCCAGCTCATTCCTTTTTTTGATAATAAAAATGAGCTATCTAAAAGATATATGGT
CAATTTTGTATCAGGAAGTAGTGATATTCCAGGGGATCCAAACAATGAATATAAATTAGCCCTCAAAAACCTATAT
TCCTTATTTAACTAAATTGAAATTTCTTTGAAAAAGTCCTTTGATTTTGTGATGAATACTTTGTCTGCTAAA
ACCCAGGAACAATATTAAGCAAAATGAAGAGGCCAAAACCTCGGAGAAAGGTGGCTGGATATTTAAGAAATATGT
AGATATATTTTGTCTCTTAGAAGAATCACAAAACAACACAGGTCTTGGATCAAAGTTCAGTGAGCCACTTCAAGT
AGAGAGATGCAGGAGAAACCTAGTAGCTTTAAAAGCAGACAAGTTTCTGGGCTCTTGGAATATCTTATCAAAG
TCAAGAGGATGCTATAAGCACTATGAAATGTATAGTGAACGAATATACTTTCTCTTAGAACAATGCAGTGTCAA
AATCCAGTCAAAAGAAAAGCTAAATTTCTCTTTGGCCAACATTATTCTCTCCTGTATCCAACCTACCTCCAGATT
AGTAAAGCCAGTTGAAAACTAAAAGATCAGCTTCGAGAAGTCTTGCAACCAATAGGACTGACTTATCAGTTTTC
AGAACCGTATTTTCTAGCTTCCCTCTTATTCTGGCCAGAAAATCAACAACCTAGATCAACATTCTGAACAAATGAA
AGAGTATGCTCAAGCACTAAAAAATTTCTTCAAGGGGCAATATAAACATATGCATCGTACAAAGCAACCAATTGC
ATATTTCTTTCTTGAAAAGGTAAAAGACTGGAAAGACTTGTTCACAAAGGAAAAATTGACCAGTGCTTTAAGAA
GACACCAGATATTAATTCCTTGTGGCAGAGTGGAGATGTGTGGAAGGAGGAAAAAGTCCAAGAACTTTTGCTTCG
TTTACAAGGTCGAGCTGAAAACAATTGTTTATATATAGAATATGGAATCAATGAAAAATCACAATACCCATCAC
TCCCGCTTTTTTAGGTCAACTTAGAAGTGGCAGAAGCATAGAGAAGGTGTCTTTTTACCTGGGATTTCCCATTTGG
AGGCCCCTTGCTTATGACATTGAAATTGTTTAAAGAGCCTGATATTCTTCTCCAAGAATTTGATCTCAGTACCC
ATTTAATTTTTTTGGACTCAAGATCTATGCTTTAAACCGGCAAGGTTATAGATACAGCCTCTAGCTCTTCAGATC
TGTACATGCAGTATTTAATTTCTCTTAAACATGTTATGAGTTCTACAAGGACAATAGTGAAAAAGGAAGGAGTG
AGATATATGAAAAGTAGCAAATATGTTCTTGGTTTGGTTAACATCATTGATGACAAAAATAATAAGGAGCTATGA
CTGGAGTCAGGAGAAGTTAGTGTAATAAGCTGGCTACACAGAACCCCACTACTTACCAGGCATGGATTGAAGAAG
ATTGTCTACTCAAATGGCATTTAGACATTAGAATGTCTGGGAAAAATATTTCTCAAAGACAGCAAAAACCTCTCAA
ACTGAGGAGCAACATTTATTCTTACTAAGCAGATCATCAATGTATCATGTGCTTGGCACTCAAGGATCTTCCAAA
ACAGAGGACCAACCAGTCTTCTGAAGGTCAATGCCACAGAAAGTCATCGGACCTTACCAAAGTAGGTTGGAGAATT
AGATTGCCTTTTTCATGCAGTGAGATTGAGTTAAGCAAAAATGAAATTTGTCTCTATAGCTAATTAGCTTATCAAC
TCCCCTCCAAACAAACAATTAACCAACATACAGACACTCAAATTCACAAGCTAATGAACAAAAGGGACTC
TTGTGAGAAGACTAATGAGTCCCTCATCCAGAAGATGCCAATGTACTGGCAGATTAACATACAACCTATGTTTTG
AACAAAAACAACCAGCGATACGTAATCAAATGTAATTTTCCCCTAATAAAATTTATGGATATGGGCAGTCATCAA
TGGCTGCCAAAACCATTAAGTGGAAAGCTGATTAAAAACAATAATTTCTAATGGATTTATCAAACGTGCCAAA
TCCGTGATAAATATTAACATCACAGAGGAAGACCAGACATTATGGGCCTGGAAGTACTATAGGAGTGACACATCA
CCCGTGACATGGTCTTGCCAAATAATTAAACCTGAATTTGATCAGGTCTCTGGATCTTATTTGCAATTCAAAGA
AATTTTAAAAAATCCTACTAACACCACCACAAATATGCAATCAGCAATATCCAGAAAGGGGAAATTCACAGGAC
AAAAACCTGGTTTTCTTTTTTGGTTTTCTTCAACCAAAAAAGAAAGAAATTGCAAAGGACCAAAAAAATGTTGGGG
AATCTATACATTATAAGGGACTTAACAATAAAGGGCAACATATAGACTTTAGATCCTAATTTGAGCAAAATCTA
AAATCAATTATTAGGCAATCAGAAAAATTTGAACACAGACTAGATATTTGAGGATATTAAGGTACTATATTATTG
AAGATTCCATGGTTATGTTTTTTAAAGAGTTCATGCCTTTTAGAGATACATACTAAAGTATTTGTAAATAAATGA
CATGATCTAGAAAAA

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FIGURE 1318

MGTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKS YHLNKSQIMLDMLTENLFFDTGMGKSKFLQDMHTL
LLTRHRDEHEGETGNWFS PFIEALHKDEGNEAVEAVLLESIHRFPNNAFICQALARHFYIKKKDFGNALNWAKQA
KII EPDNSYISDTLGQVYKSKIRWWIEENGNGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPK
SKRRYDTYNIAGYQGEIEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLT
LKFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNNTGLGSKFSEPLQVERCRR
NLVALKADKFSGLLEYLIKSDAISTMKCIVNEYTFLEQCTVKIQSKEKLNFI LANIILSCIQPT SRLVKPVE
KLKDQLREVLQPIGLTYQFSEPYFLASLLFWPENQQLDQHSEQMKEYAQALKNSFKGQYKHMHR TKQPIAYFFLG
KGKRLERLVHKGKIDQCFFK KTPDINSLWQSGDVWKEEKVQELLLRLQGRAENNCLYIEYGINEKITIPITPAFLG
QLRSGRSIEKVSFYLGFP IGGPLAYDIEIV

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FIGURE 1319

TAATCTTGAAGAACGGCACAGTGGTATGGGCCACAAGCATACTTTATGTGTGTAACGGACTGAAAGACAAATCAA
TCTTGGTGAAAGGATTTTTCATCTCTTATTTCTATTTGCCAGTGTTAGTCAGTGTTCTGCTGGCTTAGATTATTA
CCTTTTTCTGGTTCCTTACTGTGTTTTATTCTGATGGTCTAGAAATCCCTCTCCTGACCACTTGTCAGAATCA
GAAAGTGAGGAAGAAGAAAATATTAGTTACCTAAATGAGAGTTCTGGGGAAGAGTGGGATTCTCTGAAGAAGAG
GACTCTATGGTGCCCAACTTATCGCCTCTTGAGAGTCTTGCTGGCAGGTAAAGTGCCTTTTAAAATATTCCACA
ACTTGGAACCTTTAAATCCTAATTCCTGGTTGTATCATGCTAAACTGTTGGATCCAAGCACACCAGTCCATATA
CTTCGAGAGATAGGTCTAAGACTCTCCATTGTTCCCATTGTGTCCCCAACTGGAACCAATTCTGAATGGCCC
CCTCTGGCCTCTTGTTGGAGTCCCACCTTTTCAAAGCCTCTTACAAGTCCCAGCCGGCTCTCTAGAGATCATGCC
ACTCTAAATGGAGCACTGCAATTTGCCACCAAACAGCTAAGCCGAACATTGAGTAGAGCCACTCCCATACCTGAA
TACCTAAAAACAGATCCCTAATTCATGTGTTTTCTGGGTGTTGCTGTGGCTGGCTGACTAAAACAGTTAAGGAAACA
ACTCGTACTGAACCCATCAACACTACTTATTCTTACACTGACTTCCAAAAGGCAGTTAACAACTCCTAACTGCA
TCACTGTAAAGATCTACCATTTGCTCTGATATCTCTGATGTTGCTAATTGAGAAAAGTGGTACAAAGTTAGTCATT
ACACAGCCCACTAATGCCTTCTCAGTCAAACCTCTCTTATGCCCTGGCAAGCCAATGAGGATACCCTTTGACAAAC
CCTGTGGATAAAATGATAATATCAAGGTCAGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGA
GGCGGGTGGATCTGCTGAAGTCAGAAGTTTGAGACCAGCCTTGCCAACACAGTGAAACCCTGTCTCTACTAAAAA
TAAAAAAATTAGCCGGGCGCAGCAGTGCACGCCTGTAATCCCTGCTACTCGGGAGGCTGAAACAGGAGAATCACT
TGAACCCAGGAGACGGAGGTTGCGGTGAGTTGAGATTATGCCACTGTACTCCAGCCTGGGTGACAGAGCGAGACT
CAGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1320

MGPRNPSPDHLSESESEEEEEENISYLNESSGEEWDSSEEDSMVPNLSPLESLAWQVKCLLKYSTTWKPLNPNSWL
YHAKLLDPSTPVHILREIGLRRLSHCSHCVPKLEPIPEWPPLASCGVPPFQKPLTSPSRLSRDHATLNGALQFATK
QLSRTLRSRATPIPEYLKQIPNSCVSGCCCGWLTCTVKETTRTEPINTTYSYTDFOKAVNKLLTASL

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FIGURE 1321

AGCACAGTCCCGCGGACGGCTGAGCGTGTGGCTGCAGGAGCTTCTGTGGGAGTACGGTCATGAGCCTTTTGCTGT
ACTATGCCCTCCCTGCCCTGGGCAGCTATGCCATGCTCTCCATCTTCTTCTGCGCCGGCCCTCATCTGCTGCACA
CGCCAGGGCTCCACCTTCCGCATCCGCCTGGGGGCCCCACCGAGGAGGATCTGGAGAGCTGCTGGAGAACACCA
TGGAGGCCATGGAGAAAGTGAGTGTATCTGCCCTGCCAGGCTGCCATGTGAGGGTGTGCAGGTTCGTGGACTGCA
TCACAGCAAGGGACGCCATTCACTTCCCTAGCTGGGTGACTGGCGCCCCCTGGAGGTGGCCTGCACATCCCGCCAC
GAACTCCGCTCTCACATTCCCGGCCACCTCCAGCCACCATGCCCCCTCATCCCAGTCCCCTGCCCTGCCCCCG
CTGACCTTCACCCCCACAGCTCCATGGCCCCAGCGCTCGGACCTCCTGGAGCTCGACTGTCAGCTGACACGGGACA
GAGTGGTGGTGGTGTACATGATGAGAACCTGTGCCGCCAGTCGGGCCTAAACAGGGATGTGGGCAGCCTGGACT
TCGAGGACCTGCCCCCTCTACAAGGAGAAGCTGGAGGTTTACTTCTCTCCAGGCCACTTTGCTCACGGGTGAGACC
GGCGCATGGTTTCGTCTGGAGGACCTGTTCCAGAGGTTTCCAAGGACACCCATGAGCGTAGAGATCAAAGGGAAGA
ACGAAGAGCTCATCCGTGAGATAGCAGGCTTGGTGAGACGCTATGACCGTAATGAAATCACCATCTGGGCCTCGG
AGAAGAGCTCGGTGATGAAGAAATGCAAGGCTGCCAACCCCGAGATGCCCCCTGTCCTTCACAATAAGCCGAGGAT
TCTGGGTGCTGCTTTCCTACTACCTGGGGCTGCTGCCCTTCATCCCAATCCCTGAGAAGTTCTTCTTCTGCTTCC
TGCCCAACATCATCAACAGGACCTATTTCCATTTTCTGCTCTTGCCCTGAACCAGTTATTGGCTGTGGTTTCGA
AATGGCTGATCATGAGGAAGAGTCTGATCCGACACTTGAGGAGCGAGGGGTGCAGGTGGTCTTTTGGTGCCTTA
ATGAAGAGTCGGATTTTGAAGCAGCCTTCAGCGTGGGAGCCACTGGCGTCATAACGGATTATCCACAGCCCTGC
GGCACTACCTGGACAACCATGGACCAGCTGCCCGGACCTCCTTAAGTCCAGAAAGCCTCGAGGTCTTCTGTTTCTCT
TCCTGAAAAATAAATATTTGCCTTTCGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1322

MAQRSDLLELDCQLTRDRVVVVSHDENLCRQSGLNRDVGSILDFEDLPYKEKLEVYFSPGHFAHGSDRRMVRLED
LFQRFPRTPMSVEIKGKNEELIREIAGLVRRYDRNEITIWASEKSSVMKKCKAANPEMPLSFTISRGFVLLSY
LGLLPFIPIPEKFFFCFLPNIINRTYFPFSCSCLNQLLAVVSKW LIMRKS LIRHLEERG VQVFWCLNEESDFEA
AFSVGATGVITDYPTALRHYLDNHGPAARTS

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FIGURE 1323A

TCAGCGGCAGCAGCCGCCGCCGAGATGTCCTCCGGCGAAAGCAAAGCAAACCCCGGCAGATCAAACGGCCGCTTGAA
GATGCCATTGAAGATGAGGAAGAAGAATGTCCATCAGAGGAAACAGACATCATCTCCAAAGGAGACTTTCCATTG
GAGGAAAGCTTTTCCACAGAATTTGGGCCTGAAAATCTGAGCTGCGAAGAAGTGAATACTTTTGTAAACAAAGGT
GATGATGAAGGAATCCAGGAGACAGCAGAATCAGATGGGGACACACAGTCAGAGAAACCGGGGCAACCTGGAGTT
GAGACAGACGACTGGGATGGACCAGGAGAGCTGGAGGTGTTTCAGAAAGATGGGGAACGAAAAATTCAGAGTCGA
CAGCAACTTCCAGTGGGAACAACCTGGGGGCCGTTTCCTGGGAAGATGGACTTGAATAATAATTCTTTGAAGACA
AAGGCTCAGGTCCCAATGGTGCTGACTGCTGGTCCCAAGTGGTTGCTGGATGTGACTTGGCAAGGAGTGGAAGAC
AACAAAAACAACCTGCATTGTGTACAGCAAAGGGGGTCAGCTTTGGTGTACAACCTACGAAGGCCATCTCTGAGGGT
GAAGAGCTAATTGCCTTTGTGGTGGATTTTGAAGTCAAGGCTACAAGCTGCCAGTCAGATGACTCTCACAGAAGGG
ATGTACCCTGCACGCCCTGCTGGACTCAATTCAGCTGCTTCCCTCAGCAAGCTGCCATGGCTTCTATTTGCCACA
GCTATTGTCAATAAGGATATATTCCCTTGCAAGTCCCTGTGGCATCTGGTATCGGAGTGAGCGGAATCTGCAGGCC
CATTTGATGTACTACTGCAGTGGGAGGCAAAGAGAAGCTGCTCCGGTGTGAGAGGAAAATGAAGACAGTGCCCAT
CAGATTTCCAGCCTGTGCCCCCTTCCACAGTGCACCAAGAGCTTTTCAAATGCTCGAGCTCTAGAAATGCACCTG
AATTCACACAGTGGAGTGAAAATGGAAGAATTCTGCCCCCTGGTGTAGTCTAAAATGCACCGTCTGTAGCTAC
ACTGCTGATTCCGTGATCACTTTACCAACACCTGTTCTCCCATCTCACTCAAGCTGCCTTCCGATGTAATCAC
TGCCATTTCCGGCTTCCAGACTCAGAGGGAGTTATTGCAGCACCAGGAGCTCCATGTCCCTAGCGGCAAACCTTCCC
AGAGAAAGTGACATGGAACACTCTCCAAGTGAAGTGAAGACAGCTTACAGCCAGCCACAGACTTATTGACCAGA
AGCGAAGCTTCCCCAGAGCCAAAAGGCCATGCAGACTAAAGATGCGAGCTCTGACACAGAGCTGGACAAGTGTGAG
AAAAAGACTCAGCTCTTCTCACGAACCAGAGACCAGAGATACAGCCTACAACAAATAAACAAAGCTTTTCTTAC
ACAAAAATAAAGTCTGAGCCCTCTAGCCCAAGACTTGCCTCATCTCCAGTTCAGCCTAATATTGGGCCCTTCTTTC
CCTGTGGGCCCTTCTCTATCTCAGTTTTCTTCCCCAAGATATACCATGGTCCCTCAAGCTTCAGAGATCTTA
GCTAAGATGTCTGAAGTGGTGCATCGGCGACTGAGGCATGGCAGTAGTAGTACCTTCCCGTCATTTACAGCCCT
TTGATGCCCCAAGGGGGCTACTTGTTTGAGTGTAACATAACATTCAATAATTTGGATAATTATCTAGTGCACAAA
AAGCATTATTGCAGCAGCCGATGGCAGCAGATGGCTAAGTCCCCAGAGTTCCCTAGTGTGTGAGAAAAGATGCCT
GAAGCTTTGAGTCCCAACACTGGCCAAACCTCCATAAACCTTCTCAACCCAGCTGCTCATTCTGCTGATCCTGAG
AATCCACTTCTTCAAACATCTTGCATCAATTCTTCCACTGTCTTAGATTTAATTGGGCCAAATGGGAAGGGCCAT
GACAAGGACTTTTCCACTCAAACCTAAGAAGCTCTCCACCTCCAGTAACAATGATGACAAAATTAATGGAAAACCT
GTTGATGTGAAAAATCCCAGTGTCCCTTAGTGGATGGGGAAAAGTGACCCAAAATAAGACTACCTGTGAAGCTTGC
AACATTACCTTCAGCCGGCACGAAACATACATGGTCCACAAACAGTATTACTGTGCTACACGCCACGACCCCTCCA
CTGAAGAGGTCTGCTTCCAACAAAGTGCCTGCCATGCAGAGAACCATGCGCACACGCAAGCGCAGAAAAGATGTAT
GAGATGTGCCTACCTGAGCAGGAACAAAGGCCTCCACTGGTTTCAGCAGAGATTTCTTGACGTAGCCAACCTCAAT
AATCCTTGTACCTCCACTCAAGAACCCACAGAAGGGCTAGGAGAGTGCTACCACCCAAGATGTGATATCTTTCCA
GGAATTGTCTCTAAACACTTGGAAACTTCTCTGACGATCAACAAGTGTGTTCCAGTTTCCAAATGTGATACTACT
CATTCCAGTGTTCCTGCGCTAGAGATGGACGTGCCATAGATCTCAGCAAAAAGTGTATCTCAGTCTGAGCGG
ACGACCACGTCTCCCAAAAGGCTGCTGGACTATCACGAGTGCAGTGTGTGCAAGATCAGTTTCAATAAGGTAGAA
AACTATCTGGCCCAACAGCAGAATTTCTGCCCCGTTACTGCACATCAGCGTAATGACCTGGGTCAACTGGACGGC
AAAGTGTTCGGAATCCAGAAAGCGAACGAAACAGCCCTGATGTGAGCTACGAAAGAAGCATAATAAAATGTGAG
AAAAATGGGAATTTGAAGCAGCCTTCCCCCAATGGAACTTATTTTCATCCACCTAGCAACCCCGCAAGGCTTG
AAGGTCTTTAGTGAAGCTGCTCAGCTCATTGCTACAAAAGAAGAAAACAGACATTTGTTTCTTCCACAATGCCTT
TACCCTGGAGCAATAAAGAAAGCAAAGGAGCCGACCAGCTTTCTCCATATTATGGAATCAAGCCAAGTGATTAT
ATTTCTGGTCTCTTGTCTATCCATAACACTGACATCGAGCAAAGCAGAAATGCAGAAAATGAATCTCCTAAAGGC
CAGGCTTCCCTCAAATGGGTGTGCTGCGCTGAAGAAAGATTCTCTGCCATTGTTGCCCAAAAATCGAGGAATGGTA
ATAGTGAATGGTGGACTGAAACAAGATGAGAGACCTGCTGCCAACCACAGCAAGAGAACATTTCCAGAATCCT
CAGCACGAAGACGACCACAAATCTCCCTCGTGGATCTCTGAGAACCATTAGCTGCCAATGAGAATGTCTACCA
GGAATTCCTCAGCAGAGGAACAGTTGTCTAGTATAGCAAAAGGTGTGAATGGTTCCAGCCAGGCTCCAACCAGT
GGGAAATATTGCCGGCTATGTGATATCCAGTTCAACAACCTTTCAAACCTTTATAACTCACAAGAAGTTTTATTGC
TCATCACATGCAGCAGAACATGTCAAATGCAACTAACTAAACATCAGTCACCTTTGGTATCAGTGTGTTAGTATGTT
GTTCTAACAGTCCAGAAAAAAAATAAGCTGTTTGAATTACATCTGGGCAATCAGGAGATAATTCATTATGGCT

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FIGURE 1323B

GAGTTGAAGACTTAAGGTGTAATTCATTACAGTCCATTAGTAAAGTGTATTATTGGTGCCATTTTCAAAAAAAT
TAATTTATTTTACCAGCAGTATTCATAGCTGTGGTTATGTTATTTTTTATTTAAAAACTTTATATTAAAGTCATT
TGTAATGTTATTGTATAGTTATTGTGTAGCACATATGGTTTGCAGTGTATAGTAGCTTTTAAAGAAAATAGTCAC
AATACAGAAAAGCATTTTAGAAATAGCTTCAAAGCACTTGTGTATCTTGATTTTTTCTTATATGCTGTTGCAGA
TATATGTATATGCTAAAATATAACTTGCAAAGATGTTCTAAATACACATGCTATAAGTTCGCCTTAAGATTTCAA
TTCTTGGATAATCAGGCTCTGTTTGCACTTTATATTTTAGCAGATACAGTCTCTTAGTCACTAGGCTTTGCATTT
GTATGTAGCTGTATGTTTCCGTCCATTTTCTTAATCCTGAACCTGTATGTTAAATGAAGATGGCAATTTTTTTCT
TGTATAGTACTTGTATTTTCTTTTCGCTGATGCAGCTCTGCTCAATTTTTTAAACCTTTGCTGTTAAATGCAATAC
TTTATAAAGAATGAACAAAATTACTGGAAGCAGTATTGTAAGTAATGAGGTAGTATTAATCAGTTTTATCTTTTG
AAAGGCACAGTCTAAATCGAAACCCCTAAACTCAATGCTGCAAGTATGAATTTAATTCATATATAAGATCTATTTA
AATATAAGAGTAGCAATACTGCACCTGGTGATCACAAAGATAATGTTCTACTTCTGATAGAAATAATTTCTCAAC
AAATGTTGTTACTATGCATGTATATGGATGGAATAAAATTCCAGATTGTTGGAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1324

MSRRKQSKPRQIKRPLEDAIEDEEEECPSSEETDIISKGDFPLEESFSTFGPENLSCEEVEYFCNKGDDDEGIQET
AESDGDQTQSEKPGQFQVETDDWDGPGGELEVFQKDGERRKIQSRQQLPVGTTWGPFPKGMDLNNNSLKTKAQVPMVL
TAGPKWLLDVTWQGVEDNKNNCIVYSKGGQLWCTTTKAISEGEELIAFVVDFDSRLQAASQMTLTEGMYPARLLD
SIQLLPQQAAMASILPTAIVNKDIFPCKSCGIWYRSENLQAHLMYCGRQREAAVSEENEDSAHQISSLCPF
PQCTKSFSNARALEMHLNSHSGVKMEEFLLPPGASLKCTVCSYTADSVINFHQHLFSHLTQAAFRCNHCHFGFQTQ
RELLQHQLHVP SGKLPRES DMEHSPSATEDSLQPATDLLTRSELPQSQKAMQTKDASSDTELDKCEKKTQLFLT
NQRPEIQPTTNKQSF SYTKIKSEPSSPRLASSPVQPNIGPSFPVGPFLSQFSFPQDITMVPQASEILAKMSELVH
RRLRHGSSSYPPVIYSPLMPKGATCFECNITFNNLDNYLVHKKHYCSSRWQMAKSPEFFPSVSEKMPEALSPNTG
QTSINLLNPAAH SADPENPLLQTSCINSSTVLDLIGPNGKGHDKDFSTQTKKLSTSSNDDKINGKPV DVKNPSV
PLVDGESDPNKTTC EACNITFSRHETYMVHKQYYCATRHDPPLKRSASNKVPAMQRTMRTRKRRKMYEMCLPEQE
QRPPLVQQRFLDVANLNNPCTSTQEPTEGLGECYHPRCDIFPGIVSKHLETSLTINKCVPVSKCDTTHSSVSCLE
MDVPIDLSKKCLS QSERTTTSPKRLLDYHECTVCKISFNKVENYLAHKQNF CPVTAHQ RNDLGQLDGKVFNPES
ERNSPDVSYERSI IKCEKNGNLKQPS PNGNLFSSHLATPQGLKVFSEAAQLIATKEENRHLFLPQCLYPGAIKKA
KGADQLSPYYGIKPSDYISGSLVIHNTDIEQSRNAENESPKGQASSNGCAALKKDSLPLLPKNRGMVIVNGGLKQ
DERPAANPQQENISQNPQHEDDHKSPSWISENPLAANENVSPGIPSAEEQLSSIAKGVNGSSQAPTSGKYCRLCD
IQFNNLSNFI THKKFYCSSHAAEHVK

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FIGURE 1325A

TAGGAACAGGGGAGAGTGCACCTGCTACCAGTCAAGCTCAGCCAGACTGCAAGAGGAGGCGAGGCGGAGCCAGCC
GAGGGAGTGAACCATGACACAAGTTGAAATGCCCGAGTTTCTTCAAGTGCAGGGAGAAGGAGAAAGTGTCTGGCTTC
ATCAGAGAATTTCCATGTTGGTGAAAATGATGAGAATCAGGACCGTGGTAACTGGTCCAAAAAATCGGATTATCT
TCTATCTATGATTGGATACGCAGTGGGATTAGGAAATGTGTGGAGATTTCCATACTGACCTACAGCAATGGTGG
AGGCGCCTTCTTGATACCTTATGCAATTATGTTAGCATTGGCTGGTTTACCTTTGTTCTTTCTGGAGTGTTCACT
GGGACAATTTGCTAGCTTAGGTCCAGTTTCAGTTTGGAGGATTCTTCCATTGTTTCAAGGTGTGGGAATTACAAT
GGTCCTGATCTCCATTTTTTGAGACAATCTATTACAATGTCATAATTGCCTATAGTCTTTACTACATGTTTGCTTC
TTTTCAAAGTGAACCTACCATGGAAAAATGTTTCTTCGTGGTCAGATAAAAACTGTAGCAGATCACCAATAGTAAC
TCACTGTAATGTGAGTACAGTGAATAAAGGAATACAAGAGATCATCCAAATGAATAAAAGCTGGGTAGACATCAA
CAATTTTACCTGCATCAACGGCAGTGAAATTTATCAGCCAGGGCAGCTTCCAGTGAACAATATTGGAATAAAGT
GGCGCTCCAACGGTCAAGTGAATGAATGAGACTGGAGTAATTGTTTGGTATTTAGCACTTTGTCTTCTCTGCGC
TTGGCTCATAGTTGGAGCAGCACTATTTAAAGGAATCAAATCGTCTGGCAAGGTGGTATATTTTACAGCTCTTTT
CCCCATGTGGTCTACTCATCTGTTAGTACGAGGTGCAACTCTGGAGGGTGCTTCAAAAGGCATTTACATACTA
TATTGGAGCCCAGTCAAATTTTACAAAACCTTAAGGAAGCTGAGGTATGGAAGATGCTGCCACTCAGATATTTTA
CTCCCTTTCAGTGGCTTGGGGTGGCTTAGTTGCTCTATCATCTTACAATAAGTTCAAAAACAACCTGCTTCTCTGA
TGCCATTGTGGTTTGTGTTGACAACTGTCTCACTAGCGTGTTTGTCTGGATTGTCTATTTTTTCTATATTGGGACA
CATGGCCCATATATCTGGAAGGAAGTTTCTCAAGTTGTAAAATCAGGTTTTGATTGGCATTCAATGCGCTATCC
AGAGGCTCTAGCCCAACTCCAGGTGGTCCATTTTGGTCCATATTATTTTTTTTTCATGCTTTTAACCTTTGGGTCT
CGATTCTCAGTTTGCTTCGATTGAAACGATCACAACAACAATTCAAGATTTATTTCCCAAAGTGATGAAGAAAAT
GAGGGTTCCCATAACTTTGGGCTGCTGCTTGGTTTTGTTTCTCCTTGGTCTCGTCTGTGTGACTCAGGCTGGAAT
TTACTGGGTTCACTGATTGACCACTTCTGTGCTGGATGGGGCATTTTAATTGCAGCTATACTGGAGCTAGTTGG
AATCATCTGGATTTATGGAGGGAACAGATTCATTGAGGATACAGAAATGATGATTGGAGCAAAGAGGTGGATATT
CTGGCTATGGTGGAGAGCTTGCTGGTTTGTAAATTACGCCTATCCTTTTGATTGCAATATTTATCTGGTCATTGGT
GCAATTTCATAGACCTAATTATGGCGCAATTCATACCTGACTGGGGAGTTGCTTTAGGCTGGTGTATGATTGT
TTTCTGCATTATTTGGATACCAATTATGGCTATCATAAAAATAATTCAGGCTAAAGGAAAACATCTTTCAACGCCCT
TATAAGTTGCTGCAGACCAGCTTCTAACTGGGGTCCATACCTGGAACAACATCGTGGGGAAAAGATATAAAGACAT
GGTAGATCCTAAAAAAGAGGCTGACCATGAAATACCTACTGTTAGTGGCAGCAGAAAAACCGGAATGAGATCTCAT
TGAAAAAATATATGATTGTATAATGTGATTTTTTTTTAGAAATAGGGGGAACCTTATTTATTTGTGTGTTAACTGA
ATAGGAAAAATGTACATACTATGTTTCATGATAGTGTGATTTTTTTTACATTTAAGCAGGAATGCAATATAAAAAATG
TGAATCTCTTAATTCTCAGCCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA
CACCTAAGAGTCTCTATTTTACAATTATATTTTTGTAAATAGTATATGCATTTTTTAATACATTGGAGGCTTTATT
TTGAACTAATTTCTTAGAGAATAGTTATATTTTCTATTACACAAGTTTAAAAATATTATTAACCTGTATTTTCTT
AATATACAATCTATCTTTTCCACAAATATGAGTGGGAAATAAATCAGCACATTTGAAAGAAAGTGTAAAACCTGA
AGGCCTCACTTAATTAGAAACGTGATAAATATATGGACAAATGGACTATACATACTATAAGAGGACTGTAGTTTA
ATACTTTTTACCCAAATATGTTTAAAAACATCGTGCATTTGTTACAGCTCATGTTTCTATATGAACCTTAGTCAT
TAATGTTCTTTATAAAAAAGTGAATAAGATGGAAAAATTAGGATCCTACAGCCAGTACGTGATAAATCTAGAAAA
TTGAGTTTTGAGTACCTCTTTTCCCATATACAATCTTCTTCTTAGGTAATTTGGAAGAAAACCTATGACCCATT
TAATTTCTATTGTGTTTACCAAATTCAGTGTTGTTTATTATACCTCTCTGAAATATAGGTTTAAATTTCAAATAG
AATATGGACTTAAATGTTAATGAGAACTGGCTTTAATCAATTCTAGCATTTTATTACTGTAATACAGGGCTGAT
AGAGTGATTTTGTCTTATATGAGTCAGTTACTACTTACAGGTGATAACTTGCATACTATTGGAAGATAAAGTTGT
CAAACCTTGTCAGAATGAGAAAAGCCAAATTAGAAAATCCTATGTCCTAGTTTCTTACCAAGGATAATTAATA
TATCACTAAGAGCTTTATATATTGATTATATATTGTTGACAACCTGGTTTAAGCATCATAGCCTATGATGATAAAC
ACTGCCTATATATGTAAATAGCTTTTTCATCAATTCTTAAATTTCTTAACCTAGGCTTCAGGGAGCATATGAAACC
AAAATTATATGGAACATTTTCTGTGTGTACATGTACATGCATTTTTCTAGGGAGAGAGTCCGTAGGTTTATCAGA
ATATCAAGGAAAACCTGTGACCCAAAGAAGTTTAAAGAATCACATACAGTGCTGCTGGCTTTTTGTGCTTGGCAAT
GAGTGACAATAGAAGAAATAATTTTTCTTACACATTTTAAACGTTTTCTCTTCTTGTGATTGAAGATGAAAGG
AGTAAGAAATTAAGGCATTTGTTTAAATTTATACTGGTAACTTATTTAGGGGGGAGGGGACATGAAGGTAGGTAA
TAGGTAGGCCTCTAATTGAACCACCTCTCTAAGTTATGTACGTATATATAAGCTGAAATTGTGTTTGACATTCTG

FIGURE 1325B

AGGGTTTTCTTTTTCTTTTCCCTTTTTTTTTTTTTTTTTGGTGGGGGGCTGGGGGTGAGAGTCTTGTTCTGTTGCCCT
 GGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCTGCCCTCTGGATTCAAGTGATTCTCCTGCCTCA
 GCCTCTTGAGTAGCTGGGACTACAGGTGCCGCCACCACACCAGCTAAATTTTTGTATTTTTAGTAGAGGCCGAAGT
 TTCCCCATGTTGGCCAGGCTGGTCTTGAACCTCCCGACCTCAAGTGATCTGTCTACCTCGGCCCTCCTAAAGTGCTG
 AGATTACAGGTGTGAGCCACCGTGCCCGGCCCATTTCTAAGGGTTTTCTTTGAAGACAGGTCAAATGCTGTTAGTA
 AGTTTCAGGAGATTGTTAATTCCTCAGTTATACCAGATTTTATAAAATATTTGAGAATAGATGGCTAACAAGAGG
 TTAGAAATACTTTTCTTAATTTTAATCCACAGTATGTTACATGCATTCTACCACACATTTTGGTGCTATTTAA
 GGTGTGCAATTTTTCTATAGGTGACTTTTTGCAATTCAGGGAAGATTTGGGCATATTAATGAAAGAATATCTAATT
 GGGGGAGGTGTGAAGGGAAGAAATTCTTTTCAAAGCTGACCACAAAGAGTAGTTAAAAGTTTTTGTCACTATC
 TTCACAAGTGTGTAAAGCACAGATTTCAACAGAGTGCTTGGCATAATTGTAGGGTGCTCAATGGTGGTTTTTTATTA
 TTATTACTCAGATTCCACAGTGGCAAGAAACATCATTCTACATAATGGAAAACATTTACATCAAATCCCACTTAC
 TTTAATGCGAACTTGGAGATAATTTATGGTATTGTATTGTAAACCATTAAATGAAAACCTTTTTACAGTTGAGTGA
 AATTAAAAATCACTATATCTC

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FIGURE 1326

MDKCLKPSFFKCREKEKVSASSENHVGENDENQDRGNWSKSDYLLSMIGYAVGLGNVWRFPYLTYSNNGGAFI
IPYAIMLALAGLPLFFLECSLGQFASLGPVSVWRILPLFQGVGITMVLISIFVTIYYNVIIAYSLEYMFASFQSE
LPWKNCSWSKNCSPVTHCNVSTVNKGIOEIIQMNKSWVDINNFTCINGSEIYQPGQLPSEQYWNKVALQR
SSGMNETGVIVWYLALCLLLAWLIVGAALFKGIKSSGKVYFTALFPYVLLILLVRGATLEGASKGISYYIGAQ
SNFTKLKEAEVWKDAATQIFYSLSAWGGGLVALSSYNKFKNCFSDAIVCLTNCLTSVFAGFAIFSILGHMAHI
SGKEVSQVVKSGFDLAFIAYPEALAQLPGGPFWSILFFFMLLTGLGLDSQFASITTTTTIQDLFPKVMKKMRVPI
TLGCCLVLLGLVCVTQAGIYWVHLIDHFCAGWGILIAAILELVGIIWIYGGNRFIEDTEMMIGAKRWIFWLWW
RACWFVITPILLIAIFIWSLVQFHRPNYGAIPYPDWGVALGWCMIWFCCIWIPIMAIIKIIQAKGNIFQRLISCC
RPASNWGPYLEQHRGERYKDMVDPKKEADHEIPTVSGSRKPE

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FIGURE 1327A

ATGCTCTTTGAGGGCTTGGATCTGGTGTCTGGCGCTGGCCACCCTCGCCGCGTGCCTGGTGTCCGTGACGCTGCTG
CTGGCCGTGTGCGCAGCAGCTGTGGCAGCTGCGCTGGGCGGCCACTCGCGACAAGAGCTGCAAGCTGCCCATCCCC
AAGGGATCCATGGGCTTCCCGCTCATCGGAGAGACCGGCCACTGGCTGCTGCAGGGTTCTGGCTTCCAGTCGTG
CGGAGGGAGAAGTATGGCAACGTGTTCAAGACGCATTTGTTGGGGCGGCCGCTGATACGCGTGACGGCGCGGAG
AACGTGCGCAAGATCCTCATGGGCGAGCACCACCTCGTGAGCACCAGTGGCCTCGCAGCACC CGCATGTTGCTG
GGCCCCAACACGGTGTCCAATTCCATTGGCGACATCCACGCAACAAGCGCAAGGTCTTCTCCAAGATCTTCAGC
CACGAGGGCCCTGGAGAGTTACCTGCCAAGATCCAGCTGGTGATCCAGGACACACTGCGCGCCTGGAGCAGCCAC
CCCGAGGGCCATCAACGTGTACCAGGAGGCGCAGAAGCTGACCTTCCGCATGGCCATCCGGGTGCTGCTGGGCTTC
AGCATCCCTGAGGAGGACCTTGGGCACCTCTTTGAGGTCTACCAGCAGTTTGTGGACAATGTCTTCTCCCTGCCT
GTGACCTGCCCTTCAGTGGCTACCGGCGGGGCATTAGGCTCGGCAGATCCTGCAGAAGGGGCTGGAGAAGGCC
ATCCGGGAGAAGCTGCAGTGCACACAGGGCAAGGACTACTTGGACGCCCTGGACCTCCTCATTGAGAGCAGCAAG
GAGCACGGGAAGGAGATGACCATGCAGGAGCTGAAGGACGGGACCCTGGAGCTGATCTTTGCGGCCTATGCCACC
ACGGCCAGCGCCAGCACCTCACTCATATGCAGCTGCTGAAGCACCCTACTGTGCTGGAGAAGCTGCGGGATGAG
CTGCGGGCTCATGGCATCCTGCACAGTGGCGGCTGCCCCCTGCGAGGGCACACTGCGCCTGGACACGCTCAGTGGG
CTGCGCTACCTGGACTGCGTCATCAAGGAGGTATGCGCCTGTTACGCCCCATTTCCGGCGGCTACCGCACTGTG
CTGCAGACCTTCGAGCTTGATGGTTTCCAGATCCCCAAAGGCTGGAGTGTATGTATAGCATCCGGGACACCCAT
GACACAGCGCCCGTGTTCAAAGACGTGAACGTGTTGACCCCCGATCGCTTCAGCCAGGCGCGGAGCGAGGACAAG
GATGGCCGCTTCCATTACCTCCCGTTCCGTTGGCGGTGTCCGGACCTGCCTGGGCAAGCACCTGGCCAAGCTGTTT
CTGAAGGTGCTGGCGGTGGAGCTGGCTAGCACAGCCGCTTTGAGCTGGCTACACGGACCTTCCCCCGCATCACC
TTGGTCCCCGTCTGCACCCCGTGGATGGCCTCAGCGTCAAGTCTTTGGCTGGACTCCAACAGAACGAGATC
CTGCCGGAGACGGAGGCCATGCTGAGCGCCACAGTCTTAACCCAAGACCCACCCGCTCAGCCCAGCCCAGGCAGC
GGGGTGGTGGTTGTGGGAGGTAGAAACCTGTGTGTGGGAGGGGGCCGGAACGGGGAGGGCGAGTGGCCCCATAC
TTGCCCTCCCTTGCTCCCCCTCCCTGGCAAACCTACCCAAAGCCAGTGGGGCCCATTCCTAGGGCTGGGCTCCC
CTTCTGGCTCCAGCTTCCCTCCAGCCACTCCCCATTTACCATCAGCTCAGCCCCTGGGAAGGGCGTGGCAGGGGC
TCTGCATGCCCGTGACAGTGTTAGGTGTGACGCGGTGCTACAGTGTTTTTGTGATGTTCTGAAGTGTCTCCCTTC
CTCCGTTCCCTTCGGACCTTTTAGCTGGGGTGGGGGACGGGAAGAGCCGTGCCCCCTTGGGCGCACTCTTCAG
CGTCTCCTCCTCTGCGCCCCCACTGCGTCTGCCCAGGAACAGCATCCTGGGTAGCAGAACAGGAGTCAACCTTG
GCGGGGCGGGGGCTGCGTCAAACCTGGAGATTGCCCTTCCCTATGCCACGGTTCCCACCCTCCCTCACCAGTTTG
GACAATTTGAAATTACCTATTGCTGCTACTTGTTCTGTCTCTGACCTTGGGGCAAAGGAGCCCCAGGCCCTGTC
TCCCCAGCATCCTCCCTGGTGGCCCTGGGCAGGTGCACTGACACCCCCACCTTCCCATCCCTGCTGAACCAGGC
CCTGTTACACACAGCCGCTAAGGCCCGCGGCTCATGTGCTGCCCCGCCCCATATTTATTCACTGATAGAGAATC
TTGGGGATGCTGGGGTCTGGAGTGAACATCTCTCCCTTCATGCCCTAGCCTGTGTTCTAGCTGTCTCTGGCGAG
ACTTCTGTGAGTGAAGAGGAAGGGGTCTCTGGTCAAACCCAGCCCCCAGGGCCTAGGGTTGAAAGCCTTCCCCGG
CTCCGGGCATTATTTGGGTTTAATCTCGGAGCCTCACTCCTGGACTGAAGTCCGGTGCCTCTGCCTTATCCCTGG
TGGAGATGGAATGTGGCCCATTGCTCCTCCCTCTCTGTCAAAAACCTGATCAGGTAGATTTGGAGGCGGCCA
CGATTTCTGTGTTTGGCCCTGTTACCCCCAGTGCACTGGCCCTGACTCCAGGCGTGAGTATGGGGAAGGATACGG
GTTCTTCTGACGGGGAGCAAGGGCCTCCGTCTTCCCTTCCCTTAACTCTCCCCCTTTGCCCTCCGCCCTGAAAAG
GTGTCCTTGAAGTCCCTTCCACCTCTATGCCACTGTCTGCTTAGCCAGCTCAGGGGTGGGGAAGAGGCGAAAGC
GTGGGGGAGGTGAGCGCAGCGGCAGTTCTGCCTCGGAGCTGATTGCAGGGCCCTGTGTGGTCTCCGGACAGCTGC
GGGAAGGCTGCCGCAGCTGAAGCTGAAGAGGCGGTACGTGCGGTTTGTGAGGGGATTGGGTTGAAAACCTGGCC
AGTCGGGATGACTGGGTGAAAGAGGAGTAGTCTCTGCCACTGGCGTTTTGAGTGTGGCAATTTGGGATGCCTCC
TGGGGAAGGTTTCCGGGCGTTTGGTGAGTCTCTAGATTTTCTCTGCTTTCTGTGTTTATTGGTTTTTGTATGTTG
TAAAGCAATGAATCCCCTTTACAAGAAAATCGAAAACACAGAAGATGAAGGACATGCCAGTCCCCGATCGCTG
CTGTGAGCACCTCAGTGGCTCCCTCAGACCAGATCCCGTAGGCAGCCCCACAGACCGACCCTGACCCCACTCACA
GCCACCCTGAAGATAGACTATAGGAACGGGCCCATACCACACAGACTGCTCTCCAATCCCTGAGTCTCAGATGTT
TCATTTATTTCTACTTTTCCACTACTAAAAACAGTGTGGAATAGACATTATTGGCAAAATTGCTCATCCCTAA
TCCTGAAAACAGGCCAGAATGGGTAAAGACTTGTCAAAGCTTGCAACATAGCTACATGGTGCACCCGGACCTGT
ACCCCTCCCCCAACACAAAACAGTGTCTGGGAGGTTCAATTTCTTTAACTGATCCAGCTGGCCCTGAACC

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FIGURE 1327B

AATTGTTTTTGA CTGAGTATCTAGGAGAGCAGTAAGTGGA ACTTCAGACAAGCCCACTGGGTCTGGTCCAGGTGA
GGGGCAGGGGGCATGGGGCTGGGAGGTCTCAGGGGCCCTCCCTGGGGGTGGCCAGCCTGGTAGGGGGCAGAGAAG
GAAAAGCTGAGGGGGGTCCCTGTGAGGGAGGAAAGAAGGATCATTGCCCCGCTGGGTCTCAAAGGCAGTGAGAA
GAGAGCTGAAGAAAGCTCTGGCTGGCTGACAGGATCCCTGTGTTGTAATTGGTCCCTCCTTTTCAGCTCTCTAGTG
AGATGCCCCGTGTCTGTGCGTGTGCGTGTGTGTTTCATACAGCTAGCATTAGATGGGTGATGTTTCTTACTTATCA
TCCCTAACTATTGCAACTTGACCTTAAAAAGACAAAACCCACAAA ACTCTTCCTGCCACGGGCTTGCAGATTGA
AGCACTTTCGATGTTGGGCGCTGGCGTTTGTGTTCTGGGCACCACCGTGACCCTGCCCAGATGGCTATAATATTA
TTTTATACACAAACCTTTTTTTTCATAAATGTTATAATTTTGTGCTGTCTTTATAAACTATTATAAGTACTATT
TTTGTATAATTCAAATAGATATTTAGTATAAAGTTTTTGCTGTTAAATATTTGTTATTTAGTAAATATGAAT
TTTGCTCTATTGTAAACATGGTTCAAATATTAATATGTTTTTATCACAGTCGTTTTAATATTGAAAAAGCACTT
GTGTGTTTTGTTTTGATATGAACTGGTACCGTGTGAGTGTTTTTGCTGTCGTGGTTTTAATCTGTATATAATAT
TCCA TGTTGCATATTAAAAA

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FIGURE 1328

MLFEGDLVLSALATLAACLVSVTLLLAVSQQLWQLRWAATRDKSCKLP
IPKGSMSGFPLIGETGHWLLQGSGFQSS
RREKYGNVFKTHLLGRPLIRVTGAENVRKILMGEHHLVSTEWPRSTRMLLGPNTVSN
SIGDIHRNKRKVF
SKIFS
HEALESYLPKIQLVIQDTLRAWSSHPEAINVYQEAQKLTFRMAIRVLLGFSIPEEDLGH
LFEVYQQFVDNVFSLP
VDLPFSGYRRGIQARQILQKGLEKAIREKLQCTQGKDYLDA
LDLLIESSKEHGKEMTMQELKDGTLELIFAAYAT
TASASTSLIMQLLKHPTVLEKLRDELRAHGILHSGGPCCEGTLRLDTLSGLRYLDCV
IKEVMRLFTPISSGGYRTV
LQTFELDGFQIPKGWSVMYSIRDTHDTAPVFKDVNVFDPDRFSQARSEDKDG
RFHYLPFGGGVRTCLGKHLAKLF
LKVLAVELASTSRFELATRTFPRITLVPVLHPVDGLSVKFFGLDSNQNEILPETEAMLSATV

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FIGURE 1329

CCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCCTCCATCAACCACAGCTATTGGATTTCCTCA
CCCAGAATCTTTAGGTAAATGAGATCATGATTCTGGAAGGAGGTGGTGTAATGAATCTCAACCCCGGCAACAACC
TCCTTCACCAGCCGCCAGCCTGGACAGACAGCTACTCCACGTGCAATGTTTCCAGTGGGTTTTTTGGAGGCCAGT
GGCATGAAATTCATCCTCAGTACTGGACCAAGTACCAGGTGTGGGAGTGGCTCCAGCACCTCCTGGACACCAACC
AGCTGGATGCCAATTGTATCCCTTTCCAAGAGTTTCGACATCAACGGCGAGCACCTTTCAGCATGAGTTTGCAGG
AGTTCACCCGGGCGGCAGGGACGGCGGGGCAGCTCCTCTACAGCAACTTGCAGCATCTGAAGTGAACGGCCAGT
GCAGTAGTGACCTGTTCCAGTCCACACACAATGTCAATTGTCAAGACTGAACAACTGAGCCTTCATCATGAACA
CCTGGAAAGACGAGAATATTTATATGACACCAACTATGGTAGCACAGTAGATTTGTTGGACAGCAAACTTTCT
GCCGGGCTCAGATCTCCATGACAACCACAGTCACCTTCCTGTTGCAGAGTCACCTGATATGAAAAGGAGCAAG
ACCCCTGCGGAGTGCCACACCAAAAAGCACAACCCGAGAGGGACTCACTTATGGGAATTCATCCGCGACATCC
TCTTGAACCCAGACAAGAACCCAGGATTAATAAAATGGGAAGACCGATCTGAGGGCGTCTTCAGGTTCTTGAAAT
CAGAGGCAGTGGCTCAGCTATGGGGTAAAAAGAAGAACAACAGCAGCATGACCTATGAAAAGCTCAGCCGAGCTA
TGAGATATTACTACAAAAGAGAAATCTGGAGCGTGTGGATGGACGAAGACTGGTATATAAATTTGGGAAGAATG
CCCAGGATGGAGAGAAAATGAAAAC**TGA**AGCTGCCAATACTTTGGACACAAACCAAAACACACACCAATAATC
AGAAACAAAGAACTCCTGGACGTAAATATTTCAAAGACTACTTTTCTCTGATATTTATGTACCATGAGGGGAACA
AGAACTACTTCTAACGGGAAGAAGAAACACTACAGTCGATTAAAAAAATTTATTTTGTACTTCGAAGTATGTCC
TATATGGGGAAAAACGTACACAGTTTTCTGTGAAATATGATGCTGTATGTGGTTGTGATTTTTTTTACCTCTA
TTGTGAATTCTTTTTCACTGCAAGAGTAACAGGATTTGTAGCCTTGTGCTTCTTGCTAAGAGAAAGAAAAACAA
ATCAGAGGGCATTAAATGTTTTGTATGTGACATGATTTAGAAAAAGGTGATGCATCCTCCTCACATAAGCATCCA
TATGGCTTCGTCAAGGGAGGTGAACATTGTTGCTGAGTTAAATTCAGGGTCTCAGATGGTTAGGACAAAGTGA
TGGATGCCGGGAAGTTTAACTGAGCCTTAGGATCCAATGAGTGGAGAATGGGGACTTCCAAAACCCAAGGTTGG
CTATAATCTCTGCATAACCACATGACTTGAATGCTTAAATCAGCAAGAAGAATAATGGTGGGGTCTTTTATACTC
ATTCAGGAATGGTTTTATCTGATGCCAGGGCTGTCTTCCTTTCTCCCCCTTTGGATGGTTGGTGAAATACTTTAATT
GCCCTGTCTGCTCACTTCTAGCTATTTAAGAGAGAACCCAGCTTGGTCTTTTTTTGCTCCAAGTGCTTAAAAATA
AGTTGGAAAAAGGAGACGGTGGTGTGGAAATGGCTGAAGAGTTTGCTCTTGTATCCCTATAGTCCAAGGTTTCTC
AATCTGCACAATTGACATTTTTTGGCCGGAGTGTTCTTTGTGGTGAGGGCTTTCCTGTGCATTGTAAGATGTTTCA
CAGTATCCACTCATGGTCTCTAACCCTTGACACCAGAAACCCCCCAGCTGTGATAACGCAAAATGTCTCTAGAC
ATCACCAATGTTCCCTGGGGGTGGCAAATTTGCCCTTGATTGAGAACCACCAGTTTAGCTAGTCAATATGAGGA
TGGTGGTTTTATTCTCAGAAGAAAAAGATATGTAAGTCTTTTAGCTCCTAAGAGTGAAGCAAAAGCAAGACTTCAA
CTTCAACCTATCTTAATGTTTTTAAATGTTAGGGACAATAAGTTGAAATAGTTAGAGGAGCTTCTTTTTCAGAACCC
CAGATGAGAGCCAATGTCAGATAAAGTAAGCATAGCAATGTAGCAGGAACACAAATAGAAGACATTTTCACTGGA
ATTACAAAGCAGAATTAAAATTATATTGTAGAAGGAAACACCAAGAAAAGAATTTCCAGGGAAAATCCTCTTTGC
AGGTATTAATTCCTTATAATTTTTTGTCTTTTGGATTATCTGTTTACTGTCTCATCTGAAGTATCCAGGTGAAC
GGTTTATTGCCTAGATTTGTACTCAGAGGAATTTTTTTTGTCTTTCTAAGAAAGGAAAGAAAGGAT
GAAAAAAATAAACAGAAAACCTCAGCTCAGGCACAATTGTC

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FIGURE 1330

MILEGGGVMNLNPGNNLLHQPPAWTDSYSTCNVSSGFFGGQWHEIHPQYWTYQVWEWLQHLLDTNQLDANCIPF
QEFDINGEHLCSMSLQEFTRAAGTAGQLLYSNLQHLKWNGQCSSDLFQSTHNVIVKTEQTEPSIMNTWKDENLY
DTNYGSTVDLLDSKTFCRAQISMTTSHLPVAESPDMKKEQDPPAECHTKKHNPGRGTHLWEFIRDILLNPDKNPG
LIKWEDRSEGVSFRFLKSEAVAQLWGKKKNNSSMTYEKLSRAMRYYYKREILERVGDGRRLVYKFGKNARGWRENEN

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FIGURE 1331

GAAATCTGTACGAACTATTTCAGGCTGCTTTTATAGAGGCATGAAAGTTAGACAAAAATTGAAAAATGTATCAGAGGA
AAAGATGGCAGCCATTGTAAACCAATCTGCACTCTGCTGTACAGAAGCAAACTCAGTATGAAGCTGTTCAAAG
TGAAGGTGTTATGATTCAAGAGTGGTATAAAGCTTCTGGCCTTGCTTGTTCACAGGAAGCAGAGTATCATTCTCA
AAGTAGGGCTGCAGTAACAATTCAAAAAGCTTTTGTAGAATGGTCACAAGAACTGGAAACACAGAAATGTGC
TGCCCTACGGATTTCAGTTCTTCCTTCAGATGGCTGTGTATCGGAGAAGATTGTTCAGCAGAAAAGAGCTGCTAT
CACTTTACAGCATTATTTTAGGACGTGGCAAACCAGAAAACAGTTTTTACTATATAGAAAAGCAGCAGTGGTTTT
ACAAAATCACTACAGAGCATTCTGTCTGCAAAACATCAAAGACAAGTCTATTTACAGATCAGAAGCAGTGTAT
CATTATTCAAGCTAGAAGTAAAGGATTATACAGAAACGGAAGTTTCAGGAAATTAATAATAGCACCATAAAAAAT
TCAGGCTATGTGGAGGAGATATAGAGCCAAGAAATATTTATGTAAAGTGAAAGCTGCCTGCAAGATTCAAGCCTG
GTATAGATGTTGGAGAGCACACAAAGAATATCTAGCTGTATTAAGCTGTTAAAAATTATTCAAGGTTGCTTCTA
TACCAAACCTAGAGAGAACACGGTTTTTGAATGTGAGAGCATCAGCAATTATCATTTCAGAGAAAATGGAGAGCTAT
ACTTCCTGCAAAAGATAGCTCATGAACACTTCTTAATGATAAAAAGACATCGAGCTGCTTGTGTTGATCCAAGCACA
TTATAGAGGATATATAAGGAAGGCAGGCTCTCTCTTCGGCAGAAATCTGCTGCTTTGATCATACAAAAATATATACG
AGCCAGGGAGGCTGGAAAGCATGAAAGGATAAAATATATTGAATTTAAAAAATCTACAGTTATCCTACAAGCACT
GGTGCCTGGTTGGCTAGTACGAAAAAGATTTTTAGAACAGAGAGCCAAAATTCGACTTCTTCACCTCACTGCAGC
TGCATATTATCACCTGAATGCTGTTAGAATTCAAAGAGCCTATAAACTTTACCTGGCTGTGAAGAATGCTAACAA
GCAGGTTAATTCAGTCATCTGTATTAGAGATGGTTTCGAGCAAGATTACAAGAAAAGAGATTTATTAGAAAATA
TCATAGCATCAAAAAGATTGAGCATGAAGGTCAAGAATGTCTGAGCCAGCGAAATAGGGCTGCATCAGTAATACA
GAAAGCAGTGCGCCATTTCTCCTCCGTAAAAAGCAGGAAAAATTCAGTAGTGAATCATTAAAATTCAGGCATT
ATGGAGAGGCTATTCTTGGAGGAAGAAAAATGATTGTACAAAAATTAAAGCTATACGACTAAGTCTTCAAGTTGT
TAATAGGGAGATTCGAGAAGAAAAACAACTCTACAAAAGAACTGCACTTGCACTTCATTACCTTTTGACATATAA
GCACCTTTCTGCCATTCTTGAGGCCTTAAACACCTAGAGGTAGTTACTAGATTGTCTCCACTTTGTTGTGAGAA
CATGGCCCAGAGTGGAGCAATTTCTAAAATATTTGTTTTGATCCGAAGTTGTAATCGCAGTATTCCTTGTATGGA
AGTCATCAGATATGCTGTGCAAGTCTTGCTTAATGTATCTAAGTATGAGAAAACACTTCAGCAGTTTATGATGT
AGAAAATTGTATAGATATACTATTGGAGCTTTTGCAGATATACCGAGAAAAGCCTGGTAATAAAGTTGCAGACAA
AGGCGGAAGCATTTTTACAAAACCTTGTGTTTGTGGCTATTTTACTGAAGACAACAAATAGAGCCTCTGATGT
ACGAAGTAGGTCCAAAGTTGTTGACCGTATTTACAGTCTCTACAACTTACAGCTCATAAACATAAAATGAATAC
TGAAAGAATACTTTACAAGCAAAAGAAGATTCTTCTATAAGCATTCTTTTATCCCAGAAACACCTGTAAGGAC
CAGAATAGTTTCAAGACTTAAGCCAGATTGGGTTTTGAGAAGAGATAACATGGAAGAAATCACAATCCCCTGCA
AGCTATTCAAATGGTGATGGATACGCTTGGCATTCTTATTAAGTAAATGTAAACATTTTCAGTATGTATAGTGTA
AAGAAATATTAAAGCCAATCATGAGTACGTAAAGTGATTTTTGCTCTCTGTGTACAACTTTTAAATCTGACTTT
GTTTTAAAAAACATAAACTGTTTCATTACATTCTTCATTTTTATCATTATAGTTTTATGCATGTAATAAACTAA
TATGTCATAAGATG

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FIGURE 1332

MKVRQKLKNVSEKMAAIVNQSALCCYRSKTQYEAVQSEGVMIQEWYKASGLACSQEAEYHSQSRAAVTIQK AFC
RMVTRKLETQKCAALRIQFFLQMAVYRRRFVQQKRAAITLQHYFRTWQTRKQFLLYRKA AVVLQNHYRAFLSAKH
QRQVYLQIRSSVIIIQARSKGFIQKRKFQEIKNSTIKIQAMWRRYRAKKYLCKVKAACKIQAWYRCWRAHKEYLA
VLKAVKIIQGC FYTKLERTRFLNVRASAI I IQRKWRAILPAKIAHEHFLMIKRHRAACLIQAHYRGYKGRQVSLR
QKSAALIIQKYIRAREAGKHERIKYIEFKKSTVILQALVRGWLVRKRFLEQRAKIRLLHFTAAAYYHLNAVRIQR
AYKLYLAVKNANKQVNSVICIQRWFRARLQEKRFIQKYHSIKKIEHEGQECLSQRNRAASVIQKAVRHFLLRKKQ
EKFTSGIIKIQALWRGYSWRKKNDCTKIKAIRLSLQVVNREIREENKLYKRTALALHYLLTYKHL SAILEALKHL
E VVTRLSPCCENMAQSGAISKIFVLIRSCNRSIPCMEVIRYAVQVLLNVSKYEKTTSAVYDVENCIDILLELLO
IYREKPGNKVADKGGSI FTKTCLLAILLKT TNRASDVRSRSKVVDRIYSLYKLTAKHKMNTERILYKQKKNSS
ISIPFIPETPVRTRIVSR LKPDWVLRRDNMEEITNPLQAIQMVMDTLGIPY

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FIGURE 1333

ATGAGGCTCCTCCGCAGACGCCACATGCCCCCTGCGCCTGGCCATGGTGGGCTGCGCCTTTGTGCTCTTCCTCTTC
CTCCTGCATAGGGATGTGAGCAGCAGAGAGGAGGCCACAGAGAAGCCGTGGCTGAAGTCCCTGGTGAGCCGGAAG
GATCACGTCTTGACCTCATGCTGGAGGCCATGAACAACCTTAGAGATTCAATGCCCAAGCTCCAAATCAGGGCT
CCAGAAGCCCAGCAGACTCTGTTCTCCATAAACCAAGTCTGCTCCCTGGGTCTATACCCAGCTGAACTGAAG
CCCTTCTGGGAACGGCCACCACAGGACCCCAATGCCCCCTGGGGCAGATGGAAAAGCATTTTCAGAAGAGCAAGTGG
ACCCCCCTGGAGACCCAGGAAAAGGAAGAAGGCTATAAGAAGCACTGTTTCAATGCCTTTGCCAGCGACCGGATC
TCCCTGCAGAGGTCCCTGGGGCCAGACACCCGACCACCTGAGTGTGTGGACCAGAAGTTCCGGCGCTGCCCCCA
CTGGCCACCACCAGCGTGATCATTGTGTTCCACAACGAAGCCTGGTCCACACTGCTGCGAACAGTGTACAGCGTC
CTACACACCACCCCTGCCATCTTGCTCAAGGAGATCATACTGGTGGATGATGCCAGCACAGAGGAGCACCTAAAG
GAGAAGCTGGAGCAGTACGTGAAGCAGCTGCAGGTGGTGAGGGTGGTGCGGCAGGAGGAGCGGAAGGGGTGATC
ACCGCCCGCTGCTGGGGGCCAGCGTGGCACAGGCGGAGGTGCTCACGTTCCCTGGATGCCCACTGTGAGTGTTC
CACGGCTGGCTGGAGCCCCCTCCTGGCTCGAATCGCTGAGGACAAGACAGTGGTGGTGAGCCCAGACATCGTCACC
ATCGACCTTAATACTTTTGAGTTTCGCCAAGCCCGTCCAGAGGGGCAGAGTCCATAGCCGAGGCAACTTTGACTGG
AGCCTGACCTTCGGCTGGGAAACACTTCCTCCACATGAGAAGCAGAGGCGCAAGGATGAAACATACCCCATCAAA
TCCCCGACGTTTGCTGGTGGCTCTTCTCCATCCCCAAGTCTACTTTGAGCACATCGGTACCTATGATAATCAG
ATGGAGATCTGGGGAGGGGAGAACGTGGAAATGTCCTTCCGGGTGTGGCAGTGTGGGGGCCAGCTGGAGATCATC
CCCTGCTCTGTCTAGGCCATGTGTTCCGGACCAAGAGCCCCCACACCTTCCCCAAGGGCACTAGTGTCTATTGCT
CGCAATCAAGTGCGCCTGGCAGAGGTCTGGATGGACAGCTACAAGAAGATTTTCTATAGGAGAAATCTGCAGGCA
GCAAAGATGGCCCAAGAGAAATCCTTCGGTGACATTTTCGGAACGACTGCAGCTGAGGGAACAACCTGCACTGTCAC
AACTTTTCTGCTGCTGACCTGCACAATGTCTACCCAGAGATGTTTGTTCCTGACCTGACGCCCACCTTCTATGGTGCC
ATCAAGAACCTCGGCACCAACCAATGCCTGGATGTGGGTGAGAACAACCGCGGGGGGAAGCCCCCTCATCATGTAC
TCCTGCCACGGCCTTGCGCGCAACCAGTACTTTGAGTACACAACCTCAGAGGGACCTTCGCCACAACATCGCAAAG
CAGCTGTGTCTACATGTCAGCAAGGGTGCTCTGGGCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCAGGTC
CCCAAGGACGAGGAATGGGAATTGGCCCAGGATCAGCTCATCAGGAACCTCAGGATCTGGTACCTGCCTGACATCC
CAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCCAGTGACCCCCATCAGTTGTGGCTCTTTGTCTAGGACCCA
GATCATCCCCAGAGAGAGCCCCCACAAGCTCCTCAGGAAACAGGATTGCTGATGTCTGGGAACCTGATCACCAGC
TTCTCTGGAGGCCGTAAAGATGGATTTCTAAACCCACTGGGTGGCAAGGCAGGACCTTCCTAATCCTTGCAACAA
CATTGGGCCCATTTTCTTTCCCTTCACACCGATGGAAGAGACCATTAGGACATATATTTAGCCTAGCGTTTTCTG
TTCTAGAAATAGAGGCTCCCAAAGTAGGGAAGGCAGCTGGGGGAGGGTTAGGGCAGCAATGCTGAGTTCAAGAA
AAGTACTTCAGGCTGGGCACAGTGGCTCATGCCTGAAATCCTAGCACTTTGGGAAGACAATGTGGGAGAATGGCT
TGAGCCCAGGAGTTCAAGACCGGCCTGAGCAACATAGTGAGGATCCCATCTCTACGCCCACCTCCCCCGGCAA
AAAAAAAAAGCTGGGTATGGTGGCTTATGCCTGTAGTGCAGCTACTCAGAAGGCTGAGGTGGGAGGATTGCTTGT
TCCCCGGAGGTTGAAGCTACAGTGAGCCTTGATTGTGTCACTGCACTCCAGCCTGGGCAACAGGTAAGACTCTGT
CTCAAAAAAAAAACAAAAAGAAGAAGAAAGTACTTCTACAGCCATGTCTATTCTTGATCATCCAAAGCACC
TGAGAGTCCAGTGAAATGATATATTCTGGCTGGGCACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGC
CAAGGCAGGTGGATCACCTGAGGTGAGAAGTTTGAACCAGCCTGGACTACATGGTGAAACTCCATCTCTACTAA
AAGTACAAAAATTAGCTGGGCATGATGGCACGCACCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATC
ACTCGAACCAGGAGGCAGAGGTTGCAGTGAGCCAAGACAGCACCATTGCACCCCAGCCTGAGCAACAAGAGCGA
AACTCCATCTCAGGAAAAAAAAAAAAAAAAA

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FIGURE 1334

MRLRRRRHMPRLAMVGCAFVLFLFLHRDVSSREEATEKPWLKSLVSRKDHVLDLMLLEAMNNLRDSMPKLQIRA
PEAQQTLSINQSLPGFYTPAELKPFWERPPQDPNAPGADGKAFQKSKWTPLETQEKEEGYKKHCFNAFASDRI
SLQRSIGPDTRPPECVDQKFRRCPLATTSVIVFHNEAWSTLLRTVYSVLHTTPAILLKEIILVDDASTEHLK
EKLEQYVKQLQVVRVVRQEERKGLITARLLGASVAQAEVLTFDAHCECFHGWLEPLLARIAEDKTVVVSPDIVT
IDLNTFEFAKPVQRGRVHSRGNFDWSLTFGWETLPPHEKQRRKDETYPIKSPTFAGGLFSIPKSYFEHIGTYDNQ
MEIWGGENVEMSFVRVWQCGGQLEIIPCSVVGHVFRKSPHTFPKGTSVIARNQVRLAEVWMDSYKKIFYRRNLQA
AKMAQEKSFGDISERLQLREQLHCHNFSWYLNHNVPEMFVPDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMY
SCHGLGGNQYFEYTTQRDLRHNIAKQLCLHVSKGALGLGSCHFTGKNSQVPKDEEWELAQDQLIRNSGSGTCLTS
QDKKPAMAPCNPSPHQLWLFV

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FIGURE 1335

ATGATCATCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGT
CTCCGGGCCAACCTGAGGGCAACCAAGTTGTTAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGA
AATGAGAATCAGGATGAAAAGTCAAACCTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAA
GAAGCTGAGAGACAGCCACTTGGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCTGAC
TCACAGCAGAATCATTTCAGAGATAAAAAATAAGTAATCCCCTGAATTCAGAAATCATGAAAAGCAGGAAAGCCAG
GATCTCAGAGCTACTGCAAAAGTTCCTTCTCCACCAGACGAGCACCAAGAAGCTGAGAATGCTGTTTCCTCAGGT
AACAGAGATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAT
AAAAGAAGTGAATCACTACTTCCAAACCTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGAT
CAATATATTGAGAGAAAAAAGAAACATTTTGAAGAACACAATTCCATGAATGAACTGAAGCAGCCCATCAATAAG
GGAGGGGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCG
CAAGGCCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCT
GCAGCTAAAACGGGTGTCAGGTTTTTCAGCTGCTACTAAAGATAATGAGCATAAGCGTTCCTGACCAAGACTCCA
GCCAGAAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTA
AAGACCATCACGGGGAATTCTGCTGCTGTTATTACCCATTCAAGTTGACAACTGAGGCAACGCAGACTCCAGTC
TCCAATAAGAAACAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAG
CTAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAAGTTCTACAAGAAA
ACTTACAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAA
GCAAAGGTTTTGGGAATGCGAAGGGGCCTCATTTTGGCTGAAGATTTAA

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FIGURE 1336

MIIP SLEELDSLKYSDLQNLAKSLGLRANLRATKLLKALKGYIKHEARKGNENQDESQTSASSCDETEIQISNQE
EAERQPLGHVTKTRRRCKTVRVDPDSQQNHSEIKISNPTEFQNHKEQESQDLRATAKVPSPPEHQEAENAVSSG
NRDSKVPSEGKKSlytDESSKPGKNKRTAITTPNFKKLHEAHFKEMESIDQYIERKKKHFEHNSMNELKQPIN
GGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGSLKRS AISAAKTGVRFSAATKDNEHKRSLTKTP
ARKSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLSRPLNYEPHKGK
LKPWGQSKENNYLNQHVNRI NFYKKTYKQPHLQTKEEQRKKREQERKEKKAKVLGMRRGLILAED

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FIGURE 1337

ATACGGGCGCGCCGGGCAAGAAGATGGCGGGATCAGTGGCCGACAGCGATGCCGTGGTGAAACTAGATGATGGC
CATTTAAACAACCTCTTTGAGCTCTCCAGTTCAAGCGGACGTGTACTTCCCACGACTGATAGTTCCATTTTGTGGG
CACATTAAAGGTGGCATGAGACCAGGCAAGAAGGTGTTAGTGATGGGCATCGTAGACCTCAACCCAGAGAGCTTT
GCAATCAGCTTGACCTGTGGGGACTCAGAAGACCCTCCTGCCGATGTGGCAATCGAACTCAAAGCTGTGTTTACA
GATCGGCAGCTACTCAGAAATTCTTGTATATCTGGGGAGAGGGGTGAAGAACAGTCAGCAATCCCTTACTTTCCA
TTCATTCCAGACCAGCCATTCAAGGTGGAAATTCCTTTGTGAGTACCCACGTTTCCGAGTGTTTGTGGATGGACAC
CAACTTTTTGATTTTTTACCATCGCATTCAAACGTTATCTGCAATTGACACCATAAAGATAAATGGAGACCTCCAG
ATCACCAAGCTTGGCTGATTTAAACCACCTCTATTTCAAATAGGATCACGTGCCACAACCTATCTGACTGTTGGTC
TGGAAGAAGTGCTCCTAGCAAGATCTGGGAGACTTAAAAAGAAAACAAAACAAATGGCAAGTTTCACTTAAGGGTG
GTTTGGCCCTTAAGAAGAAAGCTGTTGGGACAAAGACACCGAGCCATTATACCCAGAATAAAATAATACATTTATG
CTGGATTTTATTCAGACCAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1338

MAGSVADSDAVVKLDDGHLNNSLSSPVQADVFPRLIVPFCGHIKGGMRPGKKVLVMGIVDLNPESFAISLTCGD
SEDPPADVAIELKAVFTDRQLLRNSCISGERGEEQSAIPYFPFIPDQPFPRVEILCEYPRFRVFVDGHQLFDFYHR
IQTLSAIDTIKINGDLQITKL

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FIGURE 1339

AGGTGTTTACCTGGCACTCAGGTGAGTGGTGCGCTCTGGCTGTTTTCTGTGCGAGCCGCCCGCCTCTTCCTTCAG
CGCGTCCCACAAATCCCGACGGCACGGAGGGGCCCCAGGCCAAGGGCGATGGGCCCTGAGCCCTGACACCGCTT
CGCCGCTGCTGCAGGTGCCCCCTGGCCGGCAGCGCCGCGCTGGTCCCGGAGCGCGGCGACATGCCGGAGCTGGTGG
TGACCGCGCTGCTGGCGCCGTGCGGCCTGTCGCTGAAGCTGCTGCGCGCCTTCATGTGGAGCCTGGTGTTCGCG
TGGCGCTGGTGGCCGCGCGGTCTACGGCTGCATAGCGCTCACGCACGTGCTGTGCCGGCCCCGGCGCGGCTGCT
GCGGGCGCCGTCGGAGCGCGTCCCCCGCCTGCCTGAGCGACCCCTCGCTGGGTGAGCACGGTTTCCTGAACCTCA
AGAGCTCGGGCCTGCGTCTGCAC'TATGTCTCGGCTGGACGAGGTAACGGACCCCTCATGCTGTTTCTGCACGGCT
TCCCTGAGAACTGGTTCTCCTGGCGTTACCAGCTCCGGGAGTTCCAGAGCCGCTTCCATGTTGTGGCTGTGGACT
TGCGAGGCTATGGCCCCCTCGGATGCACCTCGGGATGTGGACTGCTACACAATCGACCTGCTGCTGGTGGACATCA
AAGATGTCATCTTAGGCCTGGGTTACTCGAAGTGCATCCTTGTGGCCCATGACTGGGGTGCCCTCCTTGCCTGGC
ATTTCTCCATCTACTACCCATCCCTGGTCGAGCGGATGGTTGTGGTCAGTGGTGCCCCCATGTCGGTGTACCAAG
ACTATTCCCTGCACCACATCAGCCAGTTCTTCCGTTCCCACTACATGTTCTGTTCAGCTGCCCTGGCTGCCCCG
AGAAGCTGCTGTCTATGTCTGACTTTCAGATTCTGAAGACCACCCCTACCCACCGCAAGACAGGCATCCCATGCT
TGACCCCCAGCGAGCTCGAGGCCCTTCCTTTATAACTTCTCACAGCCTGGTGGCCTCACTGGGCCCCCTCAACTACT
ACCGAAACCTCTTCAGGAACTTCCCCCTGGAACCCAGGAGCTGACCACACCCACATTGCTGCTGTGGGGGGAGA
AGGACACTTACTTGGAGCTGGGGCTGGTGGGAAGCCATCGGCAGCCGCTTGTGCCGGGGCCGCTTGGAGGCCACA
TCCTGCCAGGCATAGGGCATTGGATCCACAGAGCAACCCCCAGGAGATGCACCAGTACATGTGGGCCTTCTTGC
AAGACCTGCTGGACTTAGTGGTCCCTGCTGGCCTGCCCAGGAGGCATGGATACTCAGGAAGGAACACACACCCATT
ATCTGTGTGTGCCTGGGAGTCCATACAATGTCCATACATGGGTGAACTCTTGAATCGCTCATAGGCATGGGACTC
CTGGATCCCACACAAGCGCACCCATGGGTGCCTCGGGACACACCAACCCCTATACTCACACACAGGCATGGATGC
ATGTGTGTGTAAACAAACACTTTGACCCTGGGAACTGGGTATACCTCTCTTCCAGTGGAGCCAGATGCCGAGACCG
AGTGTCCCACCTCCTCCCTTCCCTGGGGCCTCACTCTGCGCTTTGCCAAAGTCGCTTCTCTGCCATAGCTGCACAG
ACCTTAAACCCCTGACCTTCCCTGTCCCTGCCTTCGACCTCCTGCCTGGGTCTTCAGCTCAGTGCTACTCTGAATAC
AATACTGCTGACCACATTTGGCTACTTCAGCTTAAATGTATGTTAATTGAAATGAAATACAATGAAATGCAGTG
CTCAGTCCCCAAAAAAAAAAAAAAAAA

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FIGURE 1340

MP ELVVTALLAPSR LSLKLLRAFMWSLVFSVALVAAAVYGCIALTHVLCRPRRGCCGRRRSASPACLS DPSLGEH
GFLNLKSSGLRLHYVSAGRGNGPLMLFLHGFPENWFSWRYQLREFQSRFHVVAVDLRGYGPSDAPRDVDCYTIDL
LLVDIKDVILGLGYSKCILVAHDWGALLAWHFSIYYPSLVERMVVVS GAPMSVYQDYSLHHISQFFRSHYMF LFQ
LPWLPEKLLSMSDFQILKTTLTHRKTGIPCLTPSELEAFLYNFSQP GGLTGPLNYRNLFRNFPLEPQELTTPTL
LLWGEKDTYLELGLVEAIGSRFVPGRLEAHILPGIGHWIPQSNPQEMHQYMWAF LQDLLD

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FIGURE 1341A

GTAGACAGATCCAGGCTCACCAGTCCTGTGCCACTGGGCTTTTGGCGTTCTGCACAAGGCCTACCCGCAGATGCC
ATGCCTGTCCCCCAGCCTAATGGGCTTTGATGGGGGAAGAGGGTGGTTTCAGCCTCTCACGATGAGGAGGAAAGA
GCAAGTGTCTCTCGGACATTCTCCGGGTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAG
CTGGTCGAGCTGCTGGTCTCAGGGTCCCTGGAAGGCTTCGAGAGTGTCTGGACTGGCTGCTGTCTGGGAGGTC
CTCTCTGGGAGGACTACGAGGGCTTCCACCTCCTGGGCCAGCCTCTCTCCCACTTGGCCAGGCGCCTTCTGGAC
ACCGTCTGGAATAAGGGTACTTGGGCTGTGAGAAGCTCATCGCGGTGCCCAAGAAGCCCAGGCCGACAGCCAG
TCCCCAAGCTGCATGGCTGCTGGGACCCCCACTCGCTCCACCCAGCCCCGAGACCTGCAGAGTCACCGGCCAGCC
ATTGTCAGGAGGCTCCACAGCCATGTGGAGAACATGCTGGACCTGGCATGGGAGCGGGGTTTCGTCAGCCAGTAT
GAATGTGATGAAATCAGGTTGCCGATCTTACACCGTCCCAGAGGGCAAGAAGGCTGCTTGATCTTGCCACGGTG
AAAGCGAATGGATTGGCTGCCTTCTTCTACAACATGTTTACGAATTACCAGTCCCATTTGCCCTGCCTTTGGAA
GCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCACGGTGTCTGCTCAGTCTCGCTTCTCAGTACCTAT
GATGGAGCAGAGACGCTCTGCCTGGAGGACATATACACAGAGAATGTCTGGAGGTCTGGGCAGATGTGGGCATG
GCTGGACCCCCGCAGAAGAGCCCAGCCACCCTGGGCTGGAGGAGCTCTTACGACCCCTGGCCACCTCAATGAC
GATGCGGACACTGTGCTGGTGGTGGGTGAGGCGGGCAGTGGCAAGAGCACGCTCTGACGCGGTGCACCTTGCTG
TGGGCTGCAGGGCAAGACTTCCAGGAATTTCTCTTTGTCTTCCCATTCAGCTGCCGGCAGCTGCAGTGCATGGCC
AAACCACTCTCTGTGCGACTCTACTCTTTGAGCACTGCTGTTGGCCTGATGTTGGTCAAGAAGACATCTTCCAG
TTACTCTTGACCACCCTGACCGTGTCTGTTAACCTTTGATGGCTTTGACGAGTTCAAGTTCAGGTTACGGAT
CGTGAACGCCACTGCTCCCCGACCGACCCACCTCTGTCCAGACCCTGCTCTTCAACCTTCTGCAGGGCAACCTG
CTGAAGAATGCCCGCAAGGTGGTGACAGCCGTCCGGCCGCTGTGTGGCGTTCTCAGGAAGTACATCCGCACC
GAGTTCAACCTCAAGGGCTTCTCTGAACAGGGCATCGAGCTGTACCTGAGGAAGCGCCATCATGAGCCCGGGGTG
GCGGACCGCCTCATCCGCTGCTCCAAGAGACCTCAGCCCTGCACGGTTTGTGCCACCTGCCTGTCTTCTCATGG
ATGGTGTCCAAATGCCACCAGGAAGTGTGCTGCAGGAGGGGGGTCCCCAAAGACCACTACAGATATGTACCTG
CTGATTCTGCAGCATTTTCTGCTGCATGCCACCCCCCAGACTCAGCTTCCCAAGGTCTGGGACCCAGTCTTCTT
CGGGGCCGCTCCCCACCCTCCTGCACCTGGGCAGACTGGCTCTGTGGGGCCTGGGCATGTGCTGCTACGTGTTT
TCAGCCCAGCAGCTCCAGGCAGCACAGGTGAGCCCTGATGACATTTCTCTTGGCTTCTTGGTGCCTGCCAAAGGT
GTCGTGCCAGGGAGTACGGCGCCCCGGAATTCCTTACATCACTTTCCAGTGCTTCTTGGCGCTTCTACCTG
GCACTCAGTGCTGATGTGCCACCAGCTTTGCTCAGACACCTCTTCAATTGTGGCAGGCCAGGCAACTCACCAATG
GCCAGGCTCCTGCCACGATGTGCATCCAGGCCTCGGAGGGAAAGGACAGCAGCGTGGCAGCTTTGCTGCAGAAG
GCCGAGCCGCACAACCTTACAGATCACAGCAGCCTTCTGGCAGGGCTGTTGTGCCGGGAGCACTGGGGCCTGCTG
GCTGAGTGCCAGACATCTGAGAAGGCCCTGCTCCGGCGCCAGGCCTGTGCCCGCTGGTGTCTGGCCCGCAGCCTC
CGCAAGCACTTCCACTCCATCCCGCCAGCTGCACCGGGTGAGGCCAAGAGCGTGCATGCCATGCCCGGGTTCATC
TGGCTCATCCGGAGCCTGTACGAGATGCAGGAGGAGCGGCTGGCTCGGAAGGCTGCACGTGGCCTGAATGTTGGG
CACCTCAAGTTGACATTTTGCAGTGTGGGCCCCACTGAGTGTGCTGCCCTGGCCTTTGTGCTGCAGCACCTCCGG
CGGCCCCGTGGCCCTGCAGCTGGACTACAACCTCTGTGGGTGACATTGGCGTGGAGCAGCTGCTGCCTTGCCTTGGT
GTCTGCAAGGCTCTGTATTTGCGCGATAACAATATCTCAGACCGAGGCATCTGCAAGCTCATTGAATGTGCTCTT
CACTGCGAGCAATTGCAGAAGTTAGCTCTATTCAACAACAAATTGACTGACGGCTGTGCACACTCCATGGCTAAG
CTCCTTGATGCAGGCAGAACTTCTTGGCATTGAGGCTGGGGAATAACTACATCACTGCCGCGGGAGCCCAAGTG
CTGGCCGAGGGGCTCCGAGGCAACACCTCCTTGCACTTCTGGGATTCTGGGGCAACAGAGTGGGTGACGAGGGG
GCCAGGCCCTGGCTGAAGCCTTGGGTGATCACCAGAGCTTGAGGTGGCTCAGCCTGGTGGGGAACAACATTGGC
AGTGTGGGTGCCAAGCCTTGGCACTGATGCTGGCAAAGAACGTCATGCTAGAAGAACTCTGCCTGGAGGAGAAC
CATCTCCAGGATGAAGGTGTATGTTCTCTCGCAGAAGGACTGAAGAAAAATTCAAGTTTGAAAATCCTGAAGTTG
TCCAATAACTGCATCACCTACCTAGGGGCAGAAGCCCTCCTGCAGGCCCTTGAAAGGAATGACACCATCCTGGAA
GTCTGGCTCCGAGGGAACACTTTCTCTCTAGAGGAGGTTGACAAGCTCGGCTGCAGGGACACCAGACTCTTGCTT
TGAAGTCTCCGGGAGGATGTTCTGCTCAGTTTGTGTTGTGAGCAGGCTGTGAGTTTGGGCCCCAGAGGCTGGGTGA
CATGTGTTGGCAGCCTCTTCAAAATGAGCCCTGTCTGCCTAAGGCTGAACTTGTGTTTCTGGGAACACCATAGGT
CACCTTTATTTCTGGCAGAGGAGGGAGCATCAGTGCCCTCCAGGATAGACTTTTCCCAAGCCTACTTTTGCCATTG
ACTTCTTCCCAAGATTCAATCCCAGGATGTACAAGGACAGCCCCCTCCTCCATAGTATGGGACTGGCCTCTGCTGA
TCCTCCCAGGCTTCCGTGTGGGTGAGTGGGGCCCATGGATGTGCTTGTAACTGAGTGCCTTTTGGTGGAGAGGC

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FIGURE 1341B

CCGGCCTCTCACAAAAGACCCCTTACCACTGCTCTGATGAAGAGGAGTACACAGAACACATAATTCAGGAAGCAG
CTTTCCCATGTCTCGACTCATCCATCCAGGCCATTCCCCGTCTCTGGTTCCTCCCCTCCTCCTGGACTCCTGCA
CACGCTCCTTCCCTCTGAGGCTGAAATTCAGAATATTAGTGACCTCAGCTTTGATATTTCACTTACAGCACCCCCA
ACCCTGGCACCCAGGGTGGGAAGGGCTACACCTTAGCCTGCCCTCCTTTCCGGTGTTTAAGACATTTTTGGAAGG
GGACACGTGACAGCCGTTTGTTCCCAAGACATTCTAGGTTTGCAAGAAAAATATGACCACACTCCAGCTGGGAT
CACATGTGGACTTTTTATTTCCAGTGAAATCAGTTACTCTTCAGTTAAGCCTTTGGAAACAGCTCGACTTTAAAAA
GCTCCAAATGCAGCTTTAAAAAATTAATCTGGGCCAGAAATTTCAAACGGCCTCACTAGGCTTCTGGTTGATGCCT
GTGAACTGAACTCTGACAACAGACTTCTGAAATAGACCCACAAGAGGCAGTTCCATTTCAATTTGTGCCAGAATGC
TTTAGGATGTACAGTTATGGATTGAAAGTTTACAGGAAAAAAATTAGGCCGTTCTTCAAAGCAAATGTCTTCC
TGGATTATTCAAATGATGTAAGTTGAAGCCTTTGTAAATTGTCAGATGCTGTGCAAATGTTATTATTTTAAACA
TTATGATGTGTGAAAACCTGGTTAATATTTATAGGTCAGTTTGTCTTAAAGTTTATACTCTTATAGACA
ACATGGCCGTGAACTTTATGCTGTAAATAATCAGAGGGGAATAAACTGTTGAGTCAAAAC

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FIGURE 1342

MGEEGGSASHDEEERASVLLGHSPGCEMCQSQEAFAQQRSQLVELLVSGSLEGFESVLDWLLSWEVLSWEDYEGFH
LLGQPLSHLARRLD TVWNKGTWACQKLI AAAQEAQADSQSPKLHGCWDPHSLHPARDLQSHRPAIVRR LHS HVE
NMLDLAWERGFVSQYECDEIRLP IFTPSQRARRLLDLATVKANGLAAFL LQH VQELPVPLALPLEAATCKK YMAK
LRTTVSAQSRFLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPGHLNDDADTVLVVGE
AGSGKSTLLQRLHLLWAAGQDFQEF LFVFPFSCRQLQCMAPLSVRTLLFEHCCWPDV GQEDIFQ LLLDHPDRVL
LTFDGFDEFKFRFTDRERHCSP TDPTSVQTL LFNLLQGNLLKNARKVVT SRPAAVSAFLRKYIRTEFNLKGFSEQ
GIELYLRKRHHEPGVADR LIRLLQETSALHGLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFL LHA
TPPDSASQGLGPSLLRGR LPTLLHLGR LALWGLGMCCYVFS AQQLQAAQVSPDDISLGFLVRAKGVPVGSTAPLE
FLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPGNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITA
AFLAGLLSREHWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAMPGF IWLIRSLYEMQ
EERLARKAARGLNVGHLKLTFC SVGPTECAALAFVLQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDN
NISDRGICKLIECALHCEQLQKLALFNNKLT DGAHSMAKLLACRQNF LALRLGNNYITAAGAQVLAEGLRGNTS
LQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVGN NIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSL
AEG LKKNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDTRLLL

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FIGURE 1343

GGAAGGTGCGTCCGAGCCATGCGCCGCTGCCAACCCGTGGGACCCGGCGTCCGCGCCTAACGGCGCTGGGCTAGTG
CTAGGCCACTTCATAGCTTCGGGGATGGTCAATCAGGAGATGTTAAACATGTCTAAGAAAACAGTTTCTTGTTTT
GTGAACTTCACCAGACTACAGCAGATCACAAATATTCAAGCTGAAATCTACCAGAAAAACCTGGAAATTGAACTC
CTGAAACTAGAAAAAGATACAGCAGATGTTGTTTCATCCTTTCTTTTTTGGCTCAGAAGTGTCATACTCTGCAAAGC
ATGAATAATCATTGGAAGCAGTGCTGAAAGAGAAGAGATCCCTTAGGCAAAGACTGTTGAAACCCATGTGCCAG
GAAACTTACCTATTGAAGCTGTTTATCACAGATATATGGTACATTTGCTGGAGTTGGCTGTGACTTTTCATTGAG
AGATTAGAAACCCACCTTGAACAATTAGAAATATTCCTCATTTAGCTGCAAAATCTAAAGAAAATGAACCAGGCT
TTAGCAAAGATGGATATATTGGTGACTGAGACAGAAGAACTGGCAGAGAATATACTCAAGTGGCGTAAACAACAA
AACGAAGTTTCGTCTTGTATCCCCAAAATATTAGCTGAAGAAAGTTATCTTTATAAACATGATATTATAATGCCT
CCTTTACCTTTTACTTCTAAAGTTCATGTCCAAACTATTAATGCCAAGTAGTCATCAACTTTATTTTTTGCTTAAT
TATGTGTAGTCATATGAAGTCTATTTCTAGTTGACTGTAACATGGGTATTAATAGTCTTTGCTGCTGGTAATACT
GAAAGAACCTGCTTTATATTGGAGTATCAAGATCTCAGGTTTATTAAGACCAAACCTGACTTTTCCTTTGTTTTTC
ATATATTTTTTATTCTACCTTTTCAGTAAACTAGAGAAGCTAAAAAAGAGCCATGACAATTTATTAATATAAGTGA
ATTAACCATTTCTCAGGTGGGAAATTCTCTTTTTTTAAAAATGTGTGTTTATCGTCTGGTGTGGTGGCTCACACC
TGTAATCCTAACACTTGGGGAGGCTGAGGCGGGCAGATCACTTAAACCCAGGAGTTCAAGACCAGCCTGGGTAAC
ATGGTGAAATCCCATATCTACAAAATAAACAAAAAATTAGCCGACCATGGTGGTGCATGCCTGTAGTCCCAGCTA
TTCGGGAGGCTGAGGTAAGAGGATCACCTAAGCCTGTGAGGTGATGGTTGCAATGAGTCATGATCACGCCACTGC
GCTACAGCCTGGGCGACACAGTAAGACCCTGTCTCAAAAAAAGAAGTGTTTCTGGCCAGGCACGGTGGCTCA
CGCCTGTAATCCCAGCACTTTGGGAGGCCTAGGTGGGCAGATCATGAGGTGAGGAGTTGAGACCAGCCTGGCCA
ACATGGCGAAACACCTGTCTCTACTAAAAATACAAAAATTAGGCCGGGCGCAGTGGCTCACACCTGTAATCCCAA
CACTTTGGGAGGCCGACCCAGATGGGTGGATCACCTGAGGTGAGGAGTTTGAGACCAGCCTTGACAACATGGTGA
AACCCCATCTCTGGTAGAAATATAAAAAATTAACCGGGCATGGTGGTGGACGCCTGTAATCCCAGCTACTTGGGA
GGCTGAGGCAGAATAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTAAGCCAAGATCGTGCCTCTGCACTCCAA
CCTGGGTGATGGAGCAAGACTCCATCTCC

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FIGURE 1344

MAAANPWDPASAPNGAGLVLGHFASGMVNOEMLNMSKKTVSCFVNFTRLQQITNIQAEIYQKNLEIELLKLEKD
TADVHPPFFLAQKCHTLQSMNNHLEAVLKEKRSLRQRLKPMCQENLP IEAVYHRYMVHLELAVTFIERLETHL
ETIRNIPHLAANLKKMNQALAKMDILVTETEELAENILKWRKQONEVSSCIPKILAEESYLYKHDIIIMPPLPFTS
KVHVQTINAK

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FIGURE 1345

GCTGAGCTGCAGGCGCGGCGAACTTCCCTCTACCCGCCCGGCCGCGGCGCGCACCGTTGGCGCTGGACGCTTC
CTCCTTGGAAGCGCCCTCTCCCTCAGTCAATGGGAGAAAACCTTGTATAGATGCACTTCTCTTACTATGAATTCTTC
AGAAAAGCAAGAGACTGTATGTATTTTTTGGAACTGGTGATTTTGGAAAGATCACTGGGATTGAAAATGCTCCAGTG
TGGTTATTCTGTTGTTTTTGGAAAGTCGAAACCCCGAGAAGACCACCCTACTGCCCAGTGGTGCGAAGTCTTGAG
CTATTTCAGAAGCAGCCAAGAAGTCTGACATCATAATCATAGCAATCCACAGAGAGCATTATGATTTTTCTCACAGA
ATTAACAGAGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAAAATCAATCAATATCCAGAATC
TAATGCAGAGTACCTTGCTCATTTGGTGCCAGGAGCCACGTGGTAAAAGCATTAAACACCATCTCAGCCTGGGC
TCTCCAGTCAGGAGCACTGGATGCAAGTCGGCAGGTGTTTTGTGTGTGGAAATGACAGCAAAGCCAAGCAAAGAGT
GATGGATATTGTTTCGTAATCTTGACTTACTCCAATGGATCAAGGATCACTCATGGCAGCCAAAGAAATTGAAAA
GTACCCCTGCAGCTATTTCCAATGTGGAGGTTCCCTTCTATTTGTCTGCTGTGCTGTGTGTTCTTCTGTTTTT
CTATTGTGTTATAAGAGACGTAATCTACCCCTTATGTTTATGAAAAGAAAGATAATACATTTTCGTATGGCTATTTT
CATTCCAAATCGTATCTTTCCAATAACAGCACCTTACACTGCTTGCTTTGGTTTACCTCCCTGGTGTTATTGCTG
CCATTCTACAACGTACCGAGGCACAAAATACCGTCGATTCCCAGACTGGCTTGACCACTGGATGCTTTGCCGAA
AGCAGCTTGGCTTGGTAGCTCTGGGATTTGCCTTCTTCATGTCTCTACACACTTGTGATTCTTATTCGATATT
ATGTACGATGGAGATTGGGAACTTAACCGTTACCCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCCT
CAGCCTGGCTCAGTGATTCATATGTGGCTTTGGGAATACTTGGGTTTTTCTGTTTGTACTCTTGGGGAATCACT
TCTTTGCCATCTGTTAGCAATGCAGTCAACTGGAGAGAGTTCGGATTGTCCAGTCCAAACTGGGTTATTTGACC
CTGATCTTGTGTACAGCCACACCCTGGTGTACGGTGGGAAGAGATTCTCAGCCCTTCAAATCTCAGATGGTAT
CTTCCTGCAGCCTACGTGTTAGGGCTTATCATTCTTGCCTGTGCTGGTGATCAAGTTTGTCTAATCATGCCA
TGTGTAGACAACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAACTCAAAACACTAGAAAAAGCATTGAATG
GAAAATCAATATTTAAAACAAAGTTCAATTTAGCTGGATTTCTGAACTATGGTTTTGAATGTTTAAAGAAGAATG
ATGGGTACAGTTAGGAAAGTTTTTTTCTTACACCGTGAAGTGAAGAAATCAGTGCAGGTCCCTGACTCTTATTTCCCA
ACATACTGGAAGAGAACACCATTTTATCTCAGGTTAGTGAAGAATCAGTGCAGGTCCCTGACTCTTATTTCCCA
GAGGCCATGGAGCTGAGATTGAGACTAGCCTTGTGGTTTTCACACTAAAGAGTTTCTTGTATGGGCAACATGCA
TGACCTAATGTCTTGCAAAATCCAATAGAAGTATTGCAGCTTCTCTCTGGCTCAAGGGCTGAGTTAAGTGAAA
GGAAAAACAGCACAAATGGTGACCACTGATAAAGGCTTTATTAGGTATATCTGAGGAAGTGGGTCACATGAAATGT
AAAAAGGGAATGAGGTTTTTGTGTTTTTGGAAAGTAAAGGCAAAACATAAATATTACCATGATGAATTTCTAGTGA
AATGACCCCTTGACTTTGCTTTTCTTAATACAGATATTTACTGAGAGGAACTATTTTTATAACACAAGAAAAATT
TACAATTGATTAAAAAGTATCCAATGCTTGGATACATACGTATCTATAGAGCTGGCATGTAATTTCTCCTCTATAA
AGAATAGGTATAGGAAAGACTGAATAAAAATGGAGGGATATCCCTTGGATTTCACTTGCAATTGTGCAATAAGCA
AAGAAGGGTTGATAAAAGTTCTTGATCAAAAAGTTCAAAGAAACCAGAAATTTAGACAGCAAGCTAAATAAATAT
TGTAATAATTGCACTATATTAGGTTAAGTATTATTTAGGTATTATAATATGCTTTGTAAATTTTATATTCCAAATA
TTGCTCAATATTTTTCATCTATTAAATTAATTTCTAGTGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1346

MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVF GSRNPQKTLLPSGAEVLSYSEAAKSD
IIIIAIIHREHYDFLTELTEVLNGKILVDISNNLKINQYPESNAEYLAHLVPGAHVVKAFNTISAWALQSGALDAS
RQVFVCGNDSKAKQRVMDIVRNGLTPMDQGS LMAAKEIEKYPLQLFPMWRFPFYLSAVLCVFLFFYCVIRDVIY
PYVYEKKDNTFRMAISIPNRIFPITAPYTACFGLPPWCYCCHSTTVPRHKIPSIPRLA

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FIGURE 1347

GTGCTGCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTGCGAGGGTCACCGCAGAGGGTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCGCACTGGAGCCCCATGTGGAACCCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCATCC
TTCGAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACAACACTACTCCGAGGCAGAAATC
AAGGTGCGCGAGGGCCACCAGCAATGACCCCTGGGGCCCCCTAGTTTCGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCTTACCCGAAGTCATGGGCATGCTGTGGCGGGCGCTCAATGACAGCGGCAAGAAGTGGCGG
CACGTGTACAAGGCTCTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCCACCAGTGCCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGCGACGGCAAGGACCAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGCTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCCGTCTCTACAACCTCTCTCTCGTACCCCGCTATACCTCC
GACCTGGAGCAGGCCCGGCCTCAGACGTCAGGGGAAGAGGAAGTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCAGCCTCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCTGGCAGGGTGATGGCTCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAGGAGAGAAAGGAGGAGGAGAAGCTAAAAACCAGCCAG
TCCTCCATCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCTCTCTGGGGGCCCTTCTGCAGACCCCTGGTCT
CCGATCCCCCTCAGGAACCGTCTGTCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCTCTCTGAGCCC
TGGGGCAGGACCCAGTGTGCTGCTGGGCCCCCACCACAGACCCCTGGGCCCTGAACCTCTCCCCACTACAAA
CTCCCCAGCACTGGGGCTGACCCTTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCAGCCCCAGTTCCAAGCAAAATGGCACGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCAGCCAAGCAAAAGAGGCCCGAGCTTGCCGGACTCCCGAG
TCCTTCCTGGGTCCCTCAGCTTCCTCCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCAGGTTGCAAAGACC
CGGAACCCCTTCCTGACAGGTCTCAGCGCTCCGTCCCCCACCACCCGTTTCGGCGCGGGCGAGACGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCTGGGCTCC
ATGACCTACAGCGCTCTCTGCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCCTCCCCGCCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCCACGCCGAGCTCAGCCGGGCGCGGCCCCCG
CCCCCGCAGACCGGCACCAACCCCTTCCTCTTGAGCCCCGCCCCGTCCCATACCGGCTGCGCTGCGCCGGACGC
TCCGCGGCCCCGCTCCGGACCCGGGGCTGGGCGGGGCGCCGGTGCTAGTGGAACGCCGTGCCAGTGGCGGCTGG
TATCCCGCGGCGGCTCTGGAAGCTGGACGCGGACCACGGCCCCGGGAGCTAGAAACTGAACGCCCGCATAATAAAG
ACTGGAACCCACGTTCTCAGCTCTCACCAAGTGGACTTTTTGCGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAAACTGCAGCTGCACAACGTGGGGTGCAAAACTGCCCGCTTCCTTTACAGCTCTT
CTCAACCCCTCACCTCCATCCCCCGTCAACCAGGCACCTTCGCTTCCAGATGCTGCCAGGCTGTCACTCAATTCCG
TCATTTCAATTCATTTATCACACATGGGCACTGGGGTTGGGCTAACAGCAAGAGACAATAGGCCCTTTGTTCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCCGTTCAAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAATGTAGGGGCTCCTTGTT
CAAAAAAAAAAAAAAAAAA

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FIGURE 1348

MTTSALRRQVKNIHVHNYSEAEIKVREATSNDPWGPPSSSLMSEIADLTFNTVAFTEVMGMLWRRNLND SGKNWRHVY
KALTLLDYLLKTGSEVAHQCRENLYTIQTLKDFQYIDRDGKDQGVNVREKVKQVMALLKDEERLRQERTHALKT
KERMALEGIGIGSGQLGFSRRYGEDYSRSGSPSSYNSSSSSPRYTSDLEQARPQTSGEEELQLQLALAMSREEA
EKPVP PASHRDEDLQLQLALRLSRQEHEKEVRSWQGDGSPMANGAGAVVHHQRDREPEREERKEEEKLKTSQSSI
LDLADIFVPALAPPSTHCSADPWDIPGFRPNTEASGSSWGSPADPWSPIPSGTVLSRSQPWDLTPMLSSSEPWGR
TPVLPAGPPTTDPWALNSPHYKLPSTGADPWGASLETSDTPGGASTFDPFAKPPESTETKEGLEQALPSGKPSSP
VELDLFGDPSPSSKQNGTKEPDALDLGILGEALTQPSKEARACRTPESEFLGPSASSLVNLD SLVKAPQVAKTRNP
FLTGLSAPSPTNPF GAGETGRPTLNQMRGTGSPALGLAGGPVGAPLGSM TY SASLPLPLSSVPAGLTL PASVSVFP
QAGAFAPQPLLPTPSSAGPRPPPPQTGTNPFL

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FIGURE 1349

GGCACGAGCCACGATTTCAGTCCCCTGGACTGTAGATAAAGACCCTTTCTTGCCAGGTGCTGAGACAACCACACTA
TGAGAGGCACTCCAGGAGACGCTGATGGTGGAGGAAGGGCCGTCTATCAATCAATGTGTAAACCTATTACTGGGA
CTATTAATGATTTGAATCAGCAAGTGTGGACCCTTCAGGGTCAGAACCTTGTGGCAGTTCCACGAAGTGACAGTG
TGACCCCACTGCTGTTGCTGTTATCACATGCAAGTATCCAGAGGCTCTTGAGCAAGGCAGAGGGGATCCCATT
ATTTGGGAATCCAGAATCCAGAAATGTGTTTGTATTGTGAGAAGGTTGGAGAACAGCCCACATTGCAGCTAAAAG
AGCAGAAGATCATGGATCTGTATGGCCAACCCGAGCCCGTGAAACCTTCCTTTTCTACCGTGCCAAGACTGGTA
GGACCTCCACCCTTGAGTCTGTGGCCTTCCCGGACTGGTTTCATTGCCTCCTCCAAGAGAGACCAGCCCATCATT
TGACTTCAGAACTTGGAAGTCATACAACACTGCCTTTGAATTAAATATAAATGACTGAACTCAGCCTAGAGGTG
GCAGCTTGGTCTTTGTCTTAAAGTTTCTGGTTCCCAATGTGTTTTCGTCTACATTTTCTTAGTGTCATTTTCAG
CTGGTGCTGAGACAGGGGCAAGGCTGCTGTTATCATCTCATTTTATAATGAAGAAGAAGCAATTACTTCATAGCA
ACTGAAGAACAGGATGTGGCCTCAGAAGCAGGAGAGCTGGGTGGTATAAGGCTGTCTCTCAAGCTGGTGCTGTG
TAGGCCACAAGGCATCTGCATGAGTGACTTTAAGACTCAAAGACCAAACACTGAGCTTTCTTCTAGGGGTGGGTA
TGAAGATGCTTCAGAGCTCATGCGCGTTACCCACGATGGCATGACTAGCACAGAGCTGATCTCTGTTTCTGTTTT
GCTTTATTCCCTCTTGGGATGATATCATCCAGTCTTTATATGTTGCCAATATACCTCATTGTGTGTAATAGAACC
TTCTTAGCATTAAAGACCTTGTAACAATAAATAATTCTTGTGTTAAGTTAAATCATTTTTGTCCTAATTGTAATGT
GTAATCTTAAAGTTAAATAAACTTTGTGTATTTATATAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1350

MRGTPGDADGGGRAVYQSMCKPITGTINDLNQQVWTLQGQNLVAVPRSDSVTPVTVAVITCKYPEALEQGRGDPI
YLGIQNP EMC LYCEKVGEQPTLQLKEQKIMDLYGQPEPVKPF LFYRAKTGRTSTLESVAFPDWF IASSKRDQPII
LTSELGKSYNTAFELNIND

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FIGURE 1351

GGAAGCTCAGCAGTGTCCTGTCGCCATTTCCTTGGCCATAGAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTTGTTTGAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAACCTCTCTGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCTTGGGACTACTGCTCCTC
TTGTATTGCCACACACGTCTCAAGTCTTCTGCTCAGATATGGATCTCCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTTCGATCGTTTTTCGGAATAATTCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAGTAAACCTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCCCACCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAGATGGTACAAGTAACCG
GGACAGCTTTGACTGGATGACGATGGCCCTATTTCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCATCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAAGAGAGTCACCTCATTGAATTAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAAACCTTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCCTATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCACAGAGCCAAGTGACTG
AACAAGCATTCCCAACTATATATCTACAGATGCATTCCATTTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTTAATCTGAATAATTGTACATAAAATT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAGTAACCTTTTTTCATACCTGCCAGTTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTTTATACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTTGTGATTTCTTC
ATTTTGTCTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGTCTTTAAGTGTAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1352

MEIRLDTLSASLGRSSTLNDCNLEDKLAWYEGEAYMWHHWKPFPENPLWTCCLDFQIAQVGPWDYCSSCIRHTRLK
SSCSDMDLLHSWRSSSFGNFDRFRNNSLSKPDDSTEAEHGDPTNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVSLKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYDTSLKIKKGDIIIDIICKTPMGMTGMLNNKVGNFKFIYVDVISEEEAAPKKI
KANRRSNSKKSCTLQEFLEIRIHLQEYTSLLLNGYETLEDLKD IKESH LIELNIENPDDRRRLLSAAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLSDMVHKIIITEPSD

[illegible]

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FIGURE 1354

MTVEKEAPDAHFTVDKQNISLWPREPPPKSGPSLVPGKTPTVRAALICLTIVLVASVLLQAVLYPRFMGTISDVK
TNVQLLKGRVDNISTLDSEIKKNSDGMEAAGVQIQMVNESLGYVRSQFLKLKTSVEKANAQIQILTRSWEEVSTL
NAQIPELKSDLEKASALNTKIRALQGSLENMSKLLKRQNDILQVVSQGWKYFKGNFYFSLIPKTWYSAEQFCVS
RNSHLTSVTSESEQEFLYKTAGGLIYWIGLTKAGMEGDWSWVDDTPFNKVQSARFWIPGEPNNAGNNEHCGNIKA
PSLQAWNDAPCDKTFILFICKRPYVPSEP

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FIGURE 1355

ACTGTTTCACACTTTTTCTGCTTCTGGAAGGTGCTGGACAAAAACATGGAACTAATTTCCCCAACAGTGATTATAA
TCCTGGGTTGCTTGTCTGTTCTTACTCCTTCAGCGGAAGAATTTGCGTAGACCCCGTGTCATCAAGGGCTGGA
TTCTTTGGATTGGAGTTGGATTTGAGTTTGGGAAAGCCCCCTCTAGAATTTATAGAGAAAGCAAGAATCAAGTATG
GACCAATATTTACAGTCTTTGCTATGGGAAACCGAATGACCTTTGTTACTGAAGAAGAAGGAATTAATGTGTTTC
TAAATCCAAAAAAGTAGATTTTGAAGTAGCAGTGCAAAATATCGTTTATCGTACAGCATCAATTCCAAAGAATG
TCTTTTGTAGCACTGCATGAAAACTCTATATTATGTTGAAAGGGAAAAATGGGGACTGTCAATCTCCATCAGTTTA
CTGGGCAACTGACTGAAGAATTACATGAACAAGTGGAGAATTTAGGCACCTCATGGGACAATGGACCTGAACAAGT
TAGTAAGACATCTCCTTTATCCAGTCACAGTGAATATGCTCTTTAATAAAAGTTTGTTCACAAACAAGAAAA
AAATCAAGGAGTTCCATCAGTATTTTCAAGTTTATGATGAAGATTTTGAGTATGGGTCCCAGTTGCCAGAGTGTC
TTCTAAGAACTGGTCAAAATCCAAAAAGTGGTTTCTGGAAGTGTGAGAAAAACATTCCAGATATAAAAGCAT
GTAAATCTGCAAAAGATAATTCATGACATTATTGCAAGCTACGCTGGATATTGTAGAGACGGAAACAAGTAAGG
AAAAGTCAACCAATTATGGGCTCTTACTGCTTTGGGCTTCTCTGTCTAATGCTGTTTCTGTTGCATTTTGGACAC
TTGCATACGTCCTTTCTCATCTGATATCCACAAGGCCATTATGGAAGGCATATCTTCTGTGTTTGGCAAAGCAG
GCAAAGATAAGATTAAAGTGTCTGAGGATGACCTGGAGAACTCCTTCTAATTAAATGGTGTGTTTTGGAAACCA
TTCGTTTAAAGCTCCTGGTGTCTATTACTAGAAAAGTGGTGAAGCCTGTGGAAATTTTGAATTACATCATTCTT
CTGGTGACTTGTGATGTTGTCTCCATTTTGGCTGCATAGAAATCCAAAGTATTTTCTGAGCCTGAATTGTTCA
AACCTGAACGTTGGAAAAAGGCAATTTAGAGAAGCACTCTTCTTGGACTGCTTCATGGCATTGGAAGCGGGA
AGTTCCAGTGTCTGCAAGGTGGTTTGTCTGTTAGAGGTTGAGATGTGTATTATTTTAATACTTTATAAATATG
ACTGTAGTCTTCTGGACCCATTACCCAAACAGAGTTATCTCCATTTGGTGGGTGTCCCCAGCCGGAAGGGCAAT
GCCGAATTGAATATAAACAAGAATATGACATCTGTTGGGCCTCACAAAGGATCAGGGCCTTCTGGAGGAGTGGCA
CTACCCACCTGGCAGCACCTAGACCTGAGCTCTACAAAAACACACTGCTTCACTTTGTTTTAGGACTTAGTTCA
AGAACACATTCAAATGGTGCATGTGTTTGGTATCTTCAACAGTAGACCAAGAATCTAACATCACTCTCAGTAATA
TAGAGACCGGAATACATGGTTTATAGGAAATGATCAAATGATCCAAAAAACTCCACATTTTTTAAGAAGTTGGA
ATTTGATTTTCATGCATAACTGTATTAAACATTAAATAGAAATAATGTCATTTGAATGAAAATCTTATCACATTA
AATTCAGTGTGAAGGCAGCATACTTAAAGGAATTTGATTTTCATGCATAACTGTATTAAACATTAAATAGAAATA
ATGTCATTTGAATGAAAATCTTATCACATTAAATTCAGTGTGAAGGCAGCATACTTAAATTTTTATTTTGAAGG
TCTAAAAGGCTTAGATTTTTAAATTTAATAATTATTTCTACAAATTTTCTATTTTTCTTGAGGTGATTCTCAAC
TAGCAATTGGAAGTCTAGGCTCTATTAAACATAATTCTTTATTGTAAACGTATCTAATGCTAAAAGTAATAAAAT
GGTAGTTTTCTGAG

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FIGURE 1356

MELISPTVIIILGCLALFLLLQRKNLRRPPCIKGWIPWIGVGFEFGKAPLEFIEKARIKYGPIFTVFAMGNRMTF
VTEEEGINVFLKSKKVD FELAVQNIVYRTASIPKNVFLALHEKLYIMLKGMGT VNLHQFTGQLTEELHEQLENL
GTHGTMDLNNLVRHLLYPVTVNMLFNKSLFSTNKKKIKEFHQYFQVYDEDFEYGSQ LPECLLRNWSKSKKWFL EL
FEKNIPDIKACKSAKDNSMTLLQATLDIVETETETSKENSPNYGLLLLWASLSNAV PVAFWTLAYVLSHPDIHKAIM
EGISSVFGKAGKDKIKVSEDDLEKLLLIKWCVLETIRLKAPGVITRKVVKPVEILNYIIPSGDLLMLSPFWLHRN
PKYFPEPELFFKPERWKKANLEKHSFLDCFMAFGSGKFQCPARWFALLEVQMCIIILILYKYDCSLLDPLPKQSYLH
LVGVPPQPEGQCRIEYKQRI

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FIGURE 1357

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCGCCTTACATGGTCCACCACCCGGGCAACCCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTTCCTGTACTGTGGTCAAGGGGAACCACTGCATCATGTCCCCTTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCACTTTTGCAGGCAATGGGGGGCCCCGACTGTGCTGCCTTCCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCCAGCCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTACCTGGTACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTACAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCTTGTGTAAATATCTGCTGGATTTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCTCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTCATCGCATTATAGAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTGAGATACCCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTTC
CCTCTGCCAAAAAGACTTCCCTGGATTTGTAGATGTTGACCCAGAGTCTCTGTCCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAACTTTTCATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGAGGAGCTTAGCAAATGCCTCTGCCCTCT
TCCCCTACCCCTGTCTTCCCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCACTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCGTGTCTGTGCCCCCACCAGTTTGTCTACCTCTTGGGGCATTTTGTAAATGTGTTTTCTCT
GTCTTGTAACCTTTTGAATTGTACCGAAATGGTATCTGCAGTCGCCCTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTTCTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1358

MPALYCPSFGTGVREKLELAHPVASGAVFPAPPQGFPVSAKPVPQPGFRVPFASVWELCACVRVFVEEGSFLSNG
LRKGKEYSLQPLGSLGQCGPRTVCGAGQLVASTPNSRDPVTPASGPPCPQYLVLYTKDDLHLFPRGTTVTCSS
VSL

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FIGURE 1359

GAGCTCACAGACCCATAATCCTGCATTTCTCTAACAAGTTGTTTATGGAGTTGCTTCTCCATTGCTACATCCC
AAAATTACCCCTCCCGGTTTCTTCTGCCCCCTCCTGAGTCCCGGCTGAAGGAGGGGAGGGACGCGGGTGCGG
CGCGGGTGGGGGAGGGCGGACCCGACGCACAGGGCCAGCGCCGAGGCGCCCCCTCTCCGCCAGCGGTTGACGCCC
CCGATTATTTATCCGCAAAGTCCCGCGCGCGCCCATTTGGGCCGAGGCCCCGAGTGTGAGCGCGAGTCCCGGCTCG
CCATTGGCTCCGCACACGTGCGGCCCTGACTCACGTGCTTCCGGTTTGAAGGCAAAAAGTGTGCCTGGGTGATTT
TTTTTTTAAAGCGAGAGAGTTTGTGCAAAGATCCGAGCTGTCAGAGATTGAAAAAAAAAAAAAAAAACAAAAAA
AAAAACCAGCCCGGCGCTGGCGGAGACGCGCTCTCCCTGCAAAAAAAGCAAAGGCGATTAAAGGCGTGCCAGCC
TCACGCTCTGGGCACAGCTGAGCGTGACACTCGGGGAAGTCAAACCCCTCACTACTGCCTAGGAAGATGGCTAGA
CTTTAAATACTATTTTTTTTCCCTTTAAGAAAAAAATTATTGGAGCTTTTTTTCTTGTCTTTCTTTTCTTTCTT
TTTCTTTTTTTCTTTCATTTTTTTGGCCGTGGCTTACTCCCCATTAAATCAAATCATTGAATCTGGTTGCAGAA
AGAAAAAGAAATAGCCAAGTGTCTCCATATCTGGATGTCTACAAATTAGAGAGGGAGAGACAGCGAGATCTATC
TGCTAGATAAGAACGAGCGATCCAGGCCAGACGCTGAGCTTTTTTCTGCAACCCGCCCCGCTGCTTGCCTGAGG
CTTCGCTGCTCTTCTTCTCGCGCACCCCCACGGGCCGCTGGCAAAGTGGGGTGGGGAGCGAGGCGGTGGGGGC
GGGGGCCGCGCGCGCGCGCGGGCGGGCGGGCGGCGGAGCATGGAAGAACAGCAGCCGGAACCTAAAGTCAGCG
CGACTCGGCCCTCGGCGGCGCGCGCGGCGGCGACTCCGGGCGGCCTCAGCCTGAGCCTCAGTCCGGGCGCCAGCGG
CAGCAGCGGCAGCGGCAGCGATGGAGACAGCGTGCCGGTGTCCCCGAGCCTGCGCCCCCTCGCGCCCGCGGC
GCCTTGCTGCGCCCCCTGGCCACCAACCGCACCTCCCCCACACCCCCCGCCCCGCGCCTCAGCATCTCGC
GGCGCCTGCTCACCAGCCGAGCCAGCGGCCAGCTGCACCGCACCACTTTTTATCGACAACATCCTGAG
GCCGGACTTCGGCTGCAAAAAGGAGCAGCCGCCACCGCAGCTTCTGGTGGCTGCGGCGGCCAGAGGAGGCGCAGG
AGGAGGAGGCCGGGTGAGCGTGACAGAGGCCAGACTGCCGAGGTAGAGACCTGTCCACCCGTTGGGCACCCG
GGCGCCAGGCGCTGCCTCGCTCCTGTGCGCCCCGACGCGAACTGTGGCCACCCGACGGCTCCAGCCAGCCGC
CGCCGGCGCGGGCGCGTCTAAAGCTGGGAACCCGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
GGCGGCGGCGCGCAGCAGCAAGCCCTCGGACACCGGTGGCGGCGGCGAGTGGAGGCGGCGGCGGAGCCCCGAGC
GCAGGGCACCAATACCCGGAGCAGGCAACCCGGCTATCTACTTATGGGCTCAGCCAACGGCGGGCCCCGTGGT
CAAACTGACTCGCAGCAGCCTCTCGTATGGCCCGCTGGGTGTACTGCACACGTTATTCGGATCGTCCATCCTC
CGGTCCGCGCACCAAGGAAGCTGAAGAAGAAGAAGAACGAGAAGGAGGACAAGCGGCCGCGGACCGCGTTACGGC
CGAGCAGCTGCAGAGACTCAAGGCGGAGTTCCAGGCAAACCGCTACATCACGAGCAGCGGCGGAGACCCTGGC
CCAGGAACTCAGCCTCAACGAGTCCAGATCAAGATCTGGTTCCAGAACAAGCGCGCCAAGATCAAGAAAGCCAC
AGGCATCAAGAACGGCCTGGCGCTGCACCTCATGGCCAGGGACTGTACAACCACTCCACCACCAGGTCCAGGA
CAAAGACGAGAGCGAGTAGCCGCCACAGGCCGGGGCCGCGCCCGCGCCCCCTCCCGGCACCGCCGCGTCTCTC
CCGGCCCCCTCGCTGGGGGAGAAAGCATCTGCTCCAAGGAGGGAGGGAGCGCAGGGAAAAGAGCGAGAGAGACAGA
AAGAGAGCCTCAGAATGGACAATGACGTTGAAACGCAGCATTTTGAAGGGAGAAAGACTCGGACAGGTGCTA
TCGAAAAATAAGATCCATTCTCTATTCCCAGTATAAGGGACGAACTGCGAACTCCTTAAAGCTCTATCTAGCCA
AACCGCTTACGACCTTGTATATATTTAATTTAGGTAAGGAAAACACATACGTGTAGCGATCTCTATTTGCTGGA
CATTTTTATTAATCTCCTTTATTATTATTGTTATAATTATTATAATTATTATATTTATGGCCCTCCCCCA
CCGCTCGCTGCCCCCGCCAGTTTCTGTTTCTGTTGCTTTTTCATTGAAATGTCATTGCTTCTCCGGTGCCTCC
CGACCCGATCGCCGCGCCTGGTTTCTCTGGGACTTTTCTTGTGTGCGAGAGTGTGTTTCTTCTGCTGTCTGCC
CACCTCTTCTCCCCACCTCCCGGTCCCTTCTGTGCGTGTCTGTCTGTCTGCCCCCTTTCGTTTCCGGAGACT
TGTTGAGAAATACGACCCACAGACTGCGAGACTGAACCGCCGCTACAAGCCAAAGATTTTATTATGTTTCAAAA
CCTGTAGTCTGAAATAAA

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FIGURE 1360

MEEQQPEPKSQRDSALGGAAAATPGGLSLSLSPGASGSSGSGSDGDSVPVSPQPAPPSPPAAPCLPPLAHHPHLP
PHPPPPPPQHLLAAPAHQPQPAQLHRTTNFFIDNILRPDFGCKKEQPPPQLLVAAAARGGAGGGGRVERDRGQTA
AGRDPVHPLGTRAPGAASLLCAPDANCPPDGSQPAAAGAGASKAGNPAAAAAAAAAAVAAAAAAAAAKPSDTGG
GGSGGGAGSPGAQGTKYPEHGNPAILLMGSANGGPVVKTDSQQPLVWPAWVYCTRYSDRPSSGPRTKLLKKKKNE
KEDKRPTAFTAEQLQRLKAEFQANRYITEQRRQTLAQELSLNESQIKIWFQNKRAKIKKATGIKNGLLALHLMAQ
GLYNHSTTTVQDKDESE

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FIGURE 1362

MSTIAAFYGGKSILITGATGFLGKVLMEKLFRTSPDLKVIYILVRPKAGQALQQRVFQILDSKLFKVKVPCPNV
HEKIRAIYADLNQNDFAISKEDMQELLSCCTNIIFHCAATVRFDDTLRHAVQLNVTATRQLLLLMASQMPKLEAFIH
ISTAYSNCNLKHIDEVIYPCPVEPKKIIDSLEWLDDAIIDEITPKLIRDWPNIYTYTKALGEMVVQQESRNLNIA
IIRPSIVGATWQEPFPGWVDNINGPNGIIATGKGFLRAIKATPMAVADVIPVDTVVNLMLAVGWYTAVHRPKST
LVYHITSGNMNPCNWHKMGVQVLATFEKIPFERPFRRPNANFTSNSFTSQYWNAVSHRAPAIYDCYLRLTGRKP
RMTKLMNRLLRTVSMLEYFINRSWEWSTYNTEMLMSELSPEDQRVFNFDVRQLNWLEYIENYVLGVKKYLLKEDM
AGIPKAKQRLKRLRNIHYLFNTALFLIAWRLLIARSQMARNVWFFIVSFCYKFLSYFRASSTLKV

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FIGURE 1363

GCCCATTCAGTTGGAGAACGTAGTGAGTCTTTCAGTGGAGCCAGGGTCTGGTTTGTCGTGAGGAGCTCCGCGAT
GTCTCTCAACAGAGCGCCGTTTCCGCCAAAGGCTTTTCCAAGGGGTCGTCCCAGGGGCCCCGCTCCGTGTCCCGC
CCCGGCGCCACCCCGGCGCCCGCCTCCTCCTCCTCCTGCTGTGGCTCCGGCAGGGGCTGCTGCGGCGACTCAGG
CTGCTGCGGGCTCCAGCTCCACCAGTTGCTGCTGCTTCCCAAGGAGACGCCGTGACAGCGGAGTAGTGTTGCTG
CTGCTGCGGGGGCGGCAGCCAGAGGTCCCAGCGCTCCAACAACCGGAGCTCAGGATGCTGCTCCGGCTGCTGAGA
GGCCCGCAACCCCGAGCGCTGCGCTAGAGAAACCCGCCAGCCAGAGCGGGCCCGCCCGCTGCGGCTCCCACG
CGGGGCTGGGCCTCGGAGTTTGCCCCGTAAAGCGAATTGCACTTTGATGTTTCAGAAACCCACTTTGTTCTCAGCC
ACGCAAACTCCCTGACCCGATGTGATTTTTCTCCCCGGGGATTGAGAGCCATGCGTGGGACACTGGACCCTA
CTGTCTACACGGGCTTGACACAGCAGGTGCTCAGCAAATGCCTATTGATTGATTGTCTTTGAAGATGTCATA
ATAAAGCTTCTACCTCCTGAAAAA

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FIGURE 1364

MSSQQSAVSAKGFSGKSSQGPAPCPAPAPTPAPASSSSCCGSGRGCCGDSGCCGSSSTSCCCFPRRRRRQRSSGC
CCCGGGSQRSQRSNNRSGCCSGC

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FIGURE 1365

GAAAAATCCTTGTGGTTAACAGCAGAGGCTTCAGAGTGTAACCTGTACTCGGGCCTAGAAAATTATTTAAATCGC
GACTGATACGTCTCAAGGTGAACTCGTCCATCCTAAGGCACTCCCACTTATAGTAGGAGCTCAGCTGATCCACGC
GGACAAAGTTAGGTGAGAAGGTAGAAGATAGCACCATGCCGATTTCGTGGAAGTGTGAATTCTACCCGGGAACTCC
TCCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGTTTCAGAGGAATCTGTCTCCAC
TGTAAGAAGAAACAAGAGAATGAAACTCCACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAA
TGAAGAGAAGGAAGAAAATAAGTCTTCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGAAAAGGAGAA
GAAAGTGAAAAAAACAATTCCCTTCTGGGCTACCTTTCTGCCAGCCAGCTAGCCAGGGCCCAGAAACAAACACC
GATGGCTTCTTCCCCACGTCCCAAGATGGATGCAATCTTAAGTGGCCATTAAGGCATGCTTCCAGAAGAGTGG
TGCATCAGTGGTTGCTATTTCGAAAATACATCATCCATAAGTATCCTTCTCTGGAGCTGGAGAGAAGGGTTATCT
CCTTAAACAAGCACTGAAAAGAGAATTAAATAGAGGAGTCATCAAACAGGTTAAAGGAAAAGGTGCTTCTTGGA
GTTTTGTTGTGGTTCAGAAATCAAGAAAAACACCTCAGAAATCCAGAAAACAGAAAGAATAGGAGCTCTGCAGT
GGATCCAGAACCACAAGTAAAATTGGAGGATGGTCTCCCACTGGCCTTTACTCGCCTTTGTGAACCTAAAGAAGC
TTCTACAGTCTCATCAGGAAATATGTGTCTCAGTATTATCCTAAGCTTAGAGTGGACATCAGGCCCTCAGCTGTT
GAAGAACGCTCTGCAGAGAGCAGTAGAGAGGGGCCAGTTAGAACAGATAACTGGCAAAGGTGCTTCGGGGACATT
CCAGCTGAAGAAATCAGGGGAGAAACCCCTGCTTGGTGGAAGCCTGATGGAATATGCAATCTTGTCTGCCATTGC
TGCCATGAATGAGCCGAAGACCTGCTCTACCACTGCTCTGAAGAAGTATGTCCTAGAGAATCACCCAGGAACCAA
TTCTAACTATCAAATGCATTTGCTGAAAAAAACCTGCAGAAATGCGAAAAGAATGGGTGGATGGAACAGATCTC
TGGGAAAGGGTTCAGTGGCACCTTCCAGCTCTGTTTTCCCTATTATCCCAGCCCAGGAGTTCTGTTTTCCGAAGAA
AGAGCCAGATGATTCTAGAGATGAGGATGAAGATGAAGATGAGTCATCAGAAGAAGACTCTGAGGATGAAGAGCC
GCCACCTAAGAGAAGGTTCAGAGAAGAAAACCCAGCCAAGTCCCCAGGGAAGGCCGCATCTGTGAAGCAGAGAGG
GTCCAAACCTGCACCTAAAGTCTCAGCTGCCCAGCGGGGAAAGCTAGGCCCTTGCCTAAGAAAGCACCTCCTAA
GGCCAAAACGCCTGCCAAGAAGACCAGACCCTCATCCACAGTCATCAAGAAACCTAGTGGTGGCTCCTCAAAGAA
GCCTGCAACCAGTGCAAGAAAGGAAGTAAAATTGCCGGGCAAGGGCAAATCCACCATGAAGAAGTCTTTCAGAGT
GAAAAAGTAAATTTTATAGGAAAAAAGGGTATGATGATGAAATTCAAATCTTATTTTCTAAGCACTTTTGATAT
CAAGCAAGTGGCTTCCTTTTTGAGATATTAAAC

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FIGURE 1366

MATDTSQGELVHPKALPLIVGAQLIHADKLGEKVEDSTMPIRRVTNSTRETPPKSKLAEGEEKPEPDISSEESV
STVEEQENETPPATSSEAEQPKGEPENEEKEENKSSEETKKDEKQSKKEKKVKKTIPTSWATLSASQLARAQKQ
TPMASSPRPKMDAILTEAIKACFQKSGASVVAIRKYIIHKYPSLELERRGYLLKQALKRELNRGVKQVKKGAS
WKFCCGSEIKKKHLRNPENRKNRSSAVDPEPQVKLEDGLPLAFTRLCEPKEASYSLIRKYVSQYYPKLRVDIRPQ
LLKNALQRAVERGQLEQITGKGASGTFQLKKSGEKPLLGGSLMEYAILSATAAMNEPKTCSTTALKKYVLENHPG
TNSNYQMHLKKTLOKCEKNGWMEQISGKGFSGTFQLCFPYPSPGVLFPKKEPDDSRDEDEDEDESSEEDSEDE
EPPPKRRLQKKTPAKSPGKAASVKQRGSKPAPKVSAAQRGKARPLPKKAPPAKTPAKKTRPSSTVIKKPSGGSS
KKPAT SARKEVKLPKGKSTMKKSFRVKK

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FIGURE 1367A

GAAGGCGTCCCGGCATCGGCCAAGATTCTACATTGCTCATCTGGGCATCTGAGCCTCCTTCGAAGTTTCCTGTCA
CAACTGTCCTCTTGACAGCATGGATGAGGAGGAAGACAATCTGTCTCTGCTGACCGCACTGCTGGAAGAAAATGA
GTCAGCCTTGGATTGTAATTCAGAAGAAAATAACTTCTTGACGCGGAAAATGGCGAGCCCGACGCATTTGATGA
GCTCTTTGATGCCGACGGCGACGGTGAATCTTATACAGAAGAGGCTGATGATGGAGAAACAGGAGAGACAAGAGA
CGAAAAGGAAAATCTGGCCACTCTCTTTGGAGATATGGAGGACTTAACAGATGAAGAAGAAGTTCCCGCATCACA
GTCAACTGAAAATAGGGTCTCTCCCTGCTCCTGCCCCAGGCGAGAGAAAACGAATGAAGAGTTGCAAGAGGAATT
AAGGAATTTGCAAGAGCAAATGAAGGCCTTACAAGAGCAGCTAAAAGTAACAACAATTAACAGACAGCAAGCCC
AGCCCGTCTGCAAAAATCCCTGAGAAGTCTCCCCGCCACCTCTTAAGGAGAGGAGAGTTTACAGAGAATTCAGGA
GTCAACATGCTTTTCTGCGGAGCTTGATGTCCCTGCGCTACCAAGAACCAAGAGGGTGGCTCGAACACCAAAGCC
TTCACCTCCAGATCCCAAAAAGCTCATCTTCAAGGATGACAAGTGCACCCCTCCCAACCCCTACAGACGATTTCTCG
GAACAAACCTAGTGGGATAACTAGAGGTCAAATTGTGGGGACCCAGGAAGTTCTGGGGAAACGACTCAACCCAT
CTGTGTGGAAGCCTTCTCTGGTCTGCGGCTCAGGCGGCTCGAGTATCCTCCACAGAAATGAACAAGAAAATGAC
CGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGT
GACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAACCTTCAGCATATGGAACT
GAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGAC
GGAGCAGGGGACTGTCTGAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTTACAGAGGAGGTGTGTTT
ATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAA
GAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACTGTGAGTACCATGTCCAGGCTCAGTA
CAAGAAGCTCAGTGCAAAGCGTGCGGATCTGCAGTCCACCTTCTCTGGAGGACGAATTCCAAAGAAGTTTGCCCG
CAGAGGCACCAGCCTCAAAGAACGGCTGTGCCAAGATGGCTTTTACTACGGAGGGGTTTCTTCTGCCTCGTATGC
AGCTTCAATTGCAGCAGCTGTGGCTCCTAAGAAGAAGATTCAAACCACTCTGAGTAATCTGGTTGTTAAGGGCAC
AACTTGATCATCCAGGAAACACGGCAAAAACCTCGGAATACCCAGAGAGCCTGTCTTGCTCTGAGGAGTTCAA
GGAAGTGAAGGACCTGCCGACGTGTGGAGCCAGGAACCTTAAACAACATTTAGCCAAAGCCTCAGCTTCAGGGAT
TATGGGGAGCCCAAACAGCCATCAAGTCCATCTCGGCCTCAGCACTCTTGAAGCAACAGAAGCAGCGGATGTT
GGAGATGAGGAGAAGGAAATCAGAAGAAATACAGAAGCGATTTCTGCAGAGCTCAAGTGAAGTTGAGAGCCAGC
TGTGCCATCTTCATCAAGACAGCCCCCTGCTCAGCCTCCACGGACAGGATCCGAGTTCCCCAGGCTGGAGGGAGC
CCCGGCCACAATGACGCCCAAGCTGGGGCGAGGTGTCTTGGAAGGAGATGATGTTCTCTTTTATGATGAGTCACC
ACCACCAAGACCAAACTGAGTGCTTTAGCAGAAGCCAAAAGTTAGCTGCTATCACCAATTAAGGGCAAAAGG
CCAGGTTCTTACAAAAACAAACCCAAACAGCATTAGAAGAAAACAAAGGACCCTCAGGACATCCTGGAGGTGAA
GGAACGTGTAGAAAAAACACCATGTTTTCTTCAAGCTGAGGATGAATTGGAGCCTGCCAGGAAAAAAGGAG
AGAACAACCTGCCTATCTGGAATCTGAGGAATTTAGAAAATCCTAAAAGCAAAATCAAACACACAGGCATCCT
GAAAGAGGCCGAGGCTGAGATGCAGGAGCGCTACTTTGAGCCACTGGTGAAAAAAGAACAAATGGAAGAAAAGAT
GAGAAACATCAGAGAAGTGAAGTGCCGTGTCTGTGACATGCAAGACGTGCGCCTATACCCACTTCAAGCTGCTGGA
GACCTGCGTCAGTGAGCAGCATGAATACCACTGGCATGATGGTGTGAAGAGGTTTTTCAAATGTCCCTGTGGAAA
CAGAAGCATCTCCTTGGACAGACTCCCGAACAAGCACTGCAGTAACTGTGGCCTCTACAAATGGGAACGGGACGG
AATGCTAAAGGTATGCCATTTGCGTACTAATTTTTTGACTCCTTTTTAGTGACCCATGCTAATAATGTGGAACCATC
TCCTATTAAAATATTTTCATTTTTCTAGGAAAAGACTGGTCCAAAGATAGGAGGAGAAAACCTCTGTTACCAAGAGG
AGAAGAACATGCTAAATTTCTGAACAGCCTTAAATAACCCGAACTTCAGACATTTTCCACAGACTTCCTGGCCT
CCTGTGACTCTGGAAAGCAAAGGATTGGCTGTGTATTGTCCATTGATTCTGATTGACGCCGTCAAAAACAAATG
CTTGTTAAGCCATAAGCTTTGCCTGCTTACTTTCTGCCATTGGGTTGGTTTGATAACCATTTAACATTGACAT
TTAAGTGGAAAACCAAGTTATCATTGTCTTTTCTAAGCTCAGTGTGGATGATTGCATTACTTCATTCACTGAAGT
TTTTGCCCAAAATTTGAAGGTAAACAGAGAGCTATGTTTCTGTATCTTTTGGTTATAGAGTGTTCACTTCTTTA
TCATAACAAAATTTAGTGTATATACGAACACCCAGAGGCAAAAGAAATTTGGCTTAATTCTCACTCCAGGTAAGT
AGCTTAACTTCTGGGCTTCAGTTTTCTCATCTGTAAAATCAGGAAGATTGGACTAAGTGATCCTGAAATGTATTT
TTTAGCACTGGATTTCTACAAATAATAAACTTTCCCATCTAGATAATGATGATCACATAGTCTTGATGTACGGA
CATTAAGGAGCCAGATTTCTTCAATTCAATTCTGTTAICTCTGTTTTACTCTTTGAAATTGATCAAGCCACTGAATC
ACTTTGCATTTTCAAGTTTATATATAGAGAGAGAAAGAAGGCTGTCTGCTCTTACATTATTGTGGAGCCCTGTGATA
GAAATATGTAAAATCTCATATTATTTTTTTTTTAATTTTTTTTATTTTATGACAGGGTCTCACTATGTCACCCCT

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FIGURE 1367B

GGCTGGAGTGCAGTAGTGCGATCGCGGCACACTGCAGCCTTGGCTTCCCTGGGCTCAAGCAGTCCTCCACCTCA
GTCTCCCAAATAGCTAGGACTACAGGCGTGCGTGACCAAGCCCAGCTAATTTTTGCATTTTTTGTAGAGATGGGG
TTTTGCCATGTTGCTCAGGCTGGTCTCAAACCTCCTGAGCACTAGCAATCCACCCACCTCTGTTTCCAAAAA
AAAAAATGAAAGGTCAACCCCTATGCAAATTACCACAGCAAAGGTTTCATTTCAGGAGATTCTTCCATCTGGGCA
ACCTGGTTTTCCAAATATCATTGACCTAAGTGAATGTTGATACTAGCTAAAGATTGGGTAAATTGGTTGAATTA
TTGTATTGAAGCTTGAGCTGTAGCTAAAAGTAATTTAGGTTTCCCCTAAGATGTTATTATGTTAGGGACATAACA
CTTTTGGGAGGTTGTTGTGGGAGATGGTTGATTTAGGTTTCAAAGCTAGAAATAAAATTTACATGCCTTAGAT
TTCATAAAATTCTGCTCTAATTGGGTGGAAGGTGCTGTATCTAACTTGTGTTCCCTCCTAAGGTTATGTCCTAATA
ACTATTCTTTTAGGAGTATACTTCTACTTTATAGAAGGTTGCTTTTCTTTTAAATTTTTCTAACAAGAAAAGA
ATAAGTATTTATTAATAAGAACCAGAAAGCACTTGAACTGATGTTTTTAATGGCTCATTAGGGTAGATTTAT
TTATCTCATTAACCTTAAACAGCTATGTGTATGAAATAGGTCACAACAGAACTTGAACACCAGGTTGGTGTCTGA
GCAATCCCTTTCTTATGGGAAAAACAATGTTCTTGTGTTGAACAGAGGGTATCATTGCAGTCAGTATTCACGTGTA
TATTGTTATATAAGTTGTATAATATGCTTGTAAGGCTGAGGGTGAGCTGTATCTGGATGCCTTTTTACAATTTG
ATTTTAACTTTTAAATAAAATTTAAACATAAAAAAAAAAAAAA

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FIGURE 1368

MDEEEDNLSLLTALLEENESALDCNSEENNFLTRENGEPDAFDELFDADGDGESYTEEADDGETGETRDEKENLA
TLFGDMEDLTDEEEVPASQSTENRVLPAPAPRREKTNEELQEELRNLQEQMKALQEQLKVTTIKQTASPARLQKS
PEKSPRPPLKERRVQRIQESTCFSAELDVPALPRTKRVARTPKPSPPDPKSSSSSRMTSAPSQPLQTISRNKPSGI
TRGQIVGTPGSSGETTQPICVEAFSGLRLRRPRVSSTEMNKKMTGRKLIRLSQIKEKMAREKLEEIDWVTFGVIL
KKVTPQSVNSGKTFSIWKLNDLRDLTQCVSLFLFGEVHKALWKTEQGTVVGILNANPMKPKDGSSEEVCLSIDHPQ
KVLIMGEALDLGTCKAKKKNGEPCQTQVNLRDCEYCYHVQAQYKKLSAKRADLQSTFSGGRIPKKFARRGTSLK
ERLCQDGFYYGGVSSASYAASIAAAVAPKKKIQTTLNLVVKGTNLIQETRQKLGIPOKSLSCSEEFKELMDLP
TCGARNLKQHLAKASASGIMGSPKPAIKSISASALLKQKQRMLEMRRRKSEEIQKRFLQSSSEVESPAVPSSSR
QPPAQPPRTGSEFPRLGAPATMTPKLGRGVLEGDDVLFYDESPPPRPKLSALAEAKKLAATKLRAGQVLTKT
NPNSIKKKQKDPQDILEVKERVEKNTMFSSQAEDELEPARKKRREQLAYLESEEFQKILKAKSKHTGILKEAAE
MQERYFEPLVKKEQMEKMRNIREVKCRVVTCKTCAYTHFKLLETQVSEQHEYHWHDGVKRFFKCPCGNRSISLD
RLPNKHCSNCGLYKWERDGMMLKVCHLRTNF

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FIGURE 1369A

CTCCAGTCCGCATGCTCAGTAGCTGCTGCCGGCCGGGCTGCGGGGCGGCGTCCGCTGCGCGCCTACGGGCTGCGG
TGGCGGGCCCGCGGCACCCGGCAGGGCCCGCCAGTCCCCGCTTCCCTGCTCCAGAGCCCGCCCTGGGCGGGG
CAGGGCGGGCCCGGGGCTCCTCCATGCTGCCAGCCGCCGGGCTGCGGAGCCGACCAAGTGGCTCCTGCGATGGCG
GCGGAAGAGGAGGCTGCGGCGGGAGGTAAAGTGTGAGAGAGGAGAACCAGTGCATTGCTCCTGTGGTTTTCCAGC
CGCGTGAGTCCAGGGACAAGACCAACAGCTATGGGGTCTTTAGCTCACACATGACAGAGTTTCCACGAAAACGC
AAAGGAAGTGATTAGACCCATCCCAAGTGAAGATGGTGAACACCAAGTTAAAATGAAGGCCCTCAGAGAAGCT
CATAGCCAAACTGAAAAGCGGAGGAGAGATAAAATGAATAACCTGATTGAAGAAGTGTCTGCAATGATCCCTCAG
TGCAACCCCATGGCGCGTAAACTGGACAACTTACAGTTTTAAGAATGGCTGTTCAACACTTGAGATCTTTAAAA
GGCTTGACAAATCTTATGTGGGAAGTAATTATAGACCATCATTTCTTCAGGATAATGAGCTCAGACATTTAATC
CTTAAGACTGCAGAAGGCTTCTTATTTGTGGTTGGATGTGAAAGAGGAAAAATTCTCTTCGTTTTCTAAGTCAGTC
TCCAAAATACTTAATTATGATCAGGCTAGTTTGACTGGACAAAGCTTATTTGACTTCTTACATCCAAAAGATGTT
GCCAAAGTAAAGGAACAACTTTCTTCTTTTGATATTTACCAAGAGAAAAAGCTAATAGATGCCAAAAGTGGTTTG
CAAGTTCACAGTAATCTCCACGCTGGAAGGACACGTGTGATTCTGGCTCAAGACGATCTTTTTTCTGTCGGATA
AAGAGTTGTAATACTCTGTCAAAGAAGAGCATGGATGCTTACCCAACTCAAAGAAGAAAGAGCACAGAAAATTC
TATACTATCCATTGCACTGGTTACTTGAGAAGCTGGCCTCCAAATATTGTTGGAATGGAAGAAGAAAGGAACAGT
AAGAAAGACAACAGTAATTTTACCTGCCTTGTGGCCATTGGAAGATTACAGCCATATATTGTTCCACAGAACAGT
GGAGAGATTAATGTGAAACCACTGAATTTATAACCCGGTTTGCAGTGAATGGAAAAATTTGTCTATGTAGATCAA
AGGGCAACAGCGATTTTAGGATATCTGCCTCAGGAACCTTTGGGAACCTTCTTGTTATGAATATTTTCATCAAGAT
GACCACAATAATTTGACTGACAAGCACAAAGCAGTTCTACAGAGTAAGGAGAAAAATACTTACAGATTCCTACAAA
TTCAGAGCAAAAGATGGCTCTTTTGTAACCTTTAAAAAGCCAATGGTTTAGTTTCACAAATCCTTGGACAAAAGAA
CTGGAATATATTGTATCTGTCAACACTTTAGTTTTTGGGACATAGTGAGCCTGGAGAAGCATCATTTTTACCTTGT
AGCTCTCAATCATCAGAAGAATCCTCTAGACAGTCCTGTATGAGTGTACCTGGAATGTCTACTGGAACAGTACTT
GGTGCTGGTAGTATTGGAACAGATATTGCAAATGAAATCTGGATTTACAGAGTTACAGTCTTCTTCATACCTT
GATGATTCGAGTCCAACAGGTTTTAATGAAAGATACTCATACTGTAACTGCAGGAGTATGTCAAATAAGGAGTTG
TTTCCACCAAGTCCTTCTGAAATGGGGGAGCTAGAGGCTACCAGGCAAAACCAGAGTACTGTTGCTGTCCACAGC
CATGAGCCACTCCTCAGTGATGGTGCACAGTTGGATTTTCGATGCCCTATGTGACAATGATGACACAGCCATGGCT
GCATTTATGAATTACTTAGAAGCAGAGGGGGGCTGGGAGACCCTGGGGACTTCAGTGACATCCAGTGGACCCTC
TAGCCTTTGATTTTTAACTCCAAAAATGAGAAACATTTTAAAGCATTATTTACGAAAAAACTGTCTCAACTATTC
TTAAGTACTGTATTGATATTGTTTGTATCTTTTATTAATGTTCTACCACTTTTATAGATTTGCATCTTCTGTCT
ACAGGGATGTGGGGAAATACGTTTTCTCCCAAGAGAACCAAGTTTATTATAGACTCCTTTATTCAGTGAAATGG
CTTATAATCCACTAGTTGCCATATTTTGTCTAAATATTTCTAACCAAGAATACTACTTACATATTGTTTTGGCT
TTGTTTTATTTTGATGCAGTTTTTTTTTAGTTGAGGTAATGTAATATATTGATGTTTTCTTTGTGTCTAAGATT
GATTTATAATAGTAGGTTTGTATAATTTGGAACATTTTCCATGCCTTGCGAATTTCTTAATTGAGGATAGGGCT
TACACACTTTAAGAAAACAGTGAGTACTTGAACATTTAAAGGGACAGTGCAATTTATAGTCATAATCACATTGAA
TACTGTATTTGATCTTTGGAGACTTAGGCAAGCACAGAGCTGGGATATTTATGCTCAGTTGAGCACTTTAAGATG
AATTTTAAGTGAGATGATTTCTTGCTTAAACTCAGAAAGTCAAAGAGTTTCAGCTTTCTTACAGAAAAGGAA
GGATCTTGGGCCCTAGATCTTGGGGATTAACCTCTGCATATAAGATTTACTCTTAATAGGCCAGACGTGGTGCTC
ACGCTGTAAATCCCAGTACTTTGGGAGGCTGAGACGGGCAGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGG
CCAATATGGTGAAACCCCGTTTCTACTAAAAATACAAAAAAATACCCAGGCACTCACTCTTGAGGTAACATAAC
CACTCCCACGATAATGACAGTCCATTCATGAGCGCAAAGGCCTCATGACCTAATGGCACACACCTGTAATCCCA
ACTGCTTGGGAGGCTGAGGCGAGAGGATTGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACCA
CTGCACTCCAGTCTGGGCAACAGAGTGAGACTTCATCTCAAAAAAAGTAAAAAAAAGATTTAATATAATCACTG
AAGATCTCTATTATAGATAGATTAGGTTTTTGACATTGGAAACATACTTAGGGATAGATTTGTCTTAAAGGAAAA
AAGTAGGCCCCGGGCAGATTAAATGTCTTGTGTAAAGTCACACATTAAATTCAGTCACACATTAAATTCATAGAGT
TTTAAATGTTTAAATGTATATAAACAGTTTCTTTATACACATTTGGGAAAACATTGGTCTCACAGATTAAATGAT
TAATAACTGACCCAGGAAGTAGTTGTAGCTTTCTAAGTAATTAGGCAATTACAGTTATTGCCTGTAACCAAAGG
TAATAAAACAAAATGACAAGTACATGTTTAAATATGAGGCAATGAGAAATAATTTAAAAACCAATTTTCTAGT
TATAATTTAAATTTGGAGAGCATTTTTAACAGTAATTAATCCAGAGGTGGCTCAAATTGAGTATAAGAATTAAG

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FIGURE 1369B

ATTATTTAAAATACTGCATGTCTACCTTCTCGGGGATCATACTTTATAACACTTTCTGCTTCAGTAGCTCTTCAT
AGCTTGCCAAAGTATGCTCCCATATTTTCTCTCTCGTGCCTCGCAAATGAAAGTCAGATAGGCTGGGAACATCATGG
GGCAGCCCTCAGACTTCAATGTGGGCTTCAAATCCAGTTTCTGTTCTATATGGTGTACATCTTTCCAGAAAAT
TTCCCTCAGAGCCCTCGCCAAAACAAAGCATTATTTTGACCCTGCATGCTATTTCTTTAGCTGTAGGTGATAGA
TTAGAACTTCTGTCAGACATGTTAATGACAAACATACCAACAGACAATAACCAAAGCAAATGTTTCCTTCAAGTG
TGAAATGTGCAGGGGCTCGTGGGCAAGGATGTATTGGCACACTGTCTCTTGAAGTATAGTGTCCAGCAATGT
TGGAGGTTGGCACCATTCTGTTCCGACACTTGAGGACCTGAGAGACATCAGGTTTAGAATGAGCCAAAGAAATC
CTACAAGATGGGGAGAATTGGTGTGCAGCAGCCTAAGTGTTATAGTTAAGTCTAAAGAAGTATGAAAGATCCCT
GTGTTCTCTAAATTGAGCAGAGGGGCTGCCTACCAATATCACTTTTTAGGGGACTGAACCATTCAGGTTAGAC
TTGGCTTCCAAAGAGTCTGCCTAAGCCAGGGGTGGCAGGGTAGGCCATCATAGCTGGATGGCCTCAAAGCAGAT
GGGGGCAGACTTGCCTCGTGATGCCAGGATTTGAGAGGCAGAGTTTCTAGAGGGAGACCAGTGTGCCTCTCAC
AGTGGCAGTTTTTCTCTTTGCAAGAGGAGGGGCTGTTCAATTCCATAGACCAGTGGGCAGATAGCCAGTTGAAT
ACTCTGTGCATGGTTTGATCCTTTATTAGTTCGCTCTAATATTTTTCTGTAGATCCTTTTGTCTGGACTCAAAA
TCTAATCCATGCATTGTATGATACCGTAGCTCTCCTAAGGTTTGTGTTTCTTCAAAATGTTTATGTTTTCTTCA
ACTAAATTTGATTTTTTGCTGTTAGAAGTGACATATTTTTATGGTATACACTATGTTCTTTTTTCTACTGCGAGT
CAATTTTTTGAATTTTCTGTGAGAAAGAATATATCTACAAATTGCACGAAAGTATCATAAAAACAGTACTCTAGAG
CAGCGCTGTCCAATAGAAATATAATCTGAGCCACATGTATAATTTTATTTTCTTCTAGCCACATTAAAGAAGTAA
AAAGATACAAGTAGAACTAATTTAATGTTTTAATTCAGTATATCCAAAATATCATTGAAACATGTAATTAATAT
AAAATTATTAATGTGATATTTTACATTCTTTTGGTAATACTAGTCTTCAAAATCTGGTATGTATCTTACATTGAT
AGCACATCTCACTTTGTACTAGCCACATTGCAAGTGCTCAGTAGCCACATGTGGCTAGTGGCTACTGCCTGGAC
AGCACAGTTCAGGTTCCACCCTAACACCCAAGTCTGTGGATTAGAATCCCAGAATCAGAGCTGGAAGTAAACA
TAGAGATCAAACCTCCTTTTTAAAAATGAGGACGCTGAGGCACAGAGTTTAAATGGCTTGCATGAGGTCATACAGC
TAAATTCAGCCTCAACAGGGTCTTCTGATTCCAGGCACCTCTCCCACTCCACTACATTACTGTAGTGGTAATTCT
TAGGGTTAAAAAAGTGTAGAGTAGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACCTTTGGGAGGCCGAA
GTGGGCGGATCACGAGGTGAGGATCGAGACCATCTGGCCAACATGGTGAAACCCCGTCTCTACTGAAAATAC
AAAGCAAAATTAGCCAGGTGTGGTGGCGGGCGCCTGTGGTCCCAGCTGCTCTGGAGGCTGAGGCAGAATGGCGTG
AACCCAGGAGGCAGAGATGGCAGTGAGCCAAGATCGCGCCACTGCACCCAGCCTGGGCGACAGAGCGAGACTCC
ATCTCAAAAAAAAAAAAAAAAAAAAAAGAAAAGAAAAGAAAAGTCTAGAGAACATTATATTAAGTGGTTATTATT
GAAGTAGACCAAAGTTTATACCATAAGGATATTTTCTTAAATACCATGTTTGAAGAACAATTATTTATTGATC
CTTGAATCTGTAAAGATCAAATAACAAGTCTCTATCCATGTTACCAAATTTAACCTTTTGAAAATAATAAACTTTA
AAATATCAGATGTGTTATTACAGGATGATACTTGAATCAAGTGAAATGAGTTATATGGTCATCACTAAATTTAG
AAATCTATTGTGAAACAAAGACAAACAGGAAAGTACAGAATAGAGACTTTTAGTAAATAAATGGAATTTAAAAGA
AAGTGTATTATTACAGTGTACGACAGAAAAGGATGTCTTTGTTGTCATAGTCTTTGAGGGATCTCCGTAAATC
TGGGGCACAGGTACAAGAAATAGCCAATATTTAGTTCCCAGACCATGTTTAGTAGTGTCCAGTTTCAGATCATGC
TGCCAAGAGGTATCTCCCCCTCAGGTGGGTGATCACTGAGCCCTGGAATTGGAGACTCATACTTGCCCAGCACAA
TGTTACGGGCAGACAGGCCGACATCTATGATTAGCTAGAAGCCATAAAGAAAAGCTGCTAAGTGGCCACTAGGTG
CCACTTTTCTGTTTTTGTAAATGCTTTTATTAGCAGATCTTTTTTTTCCAAGCTCCATGGGGCCTATGAGAGGCAT
TTATGATTTTTGTGCCTACAATAAGTCAGCCTGTCTGGTGTGAGTTGTTTTATGAGAAATGCTTTCCAAGGGAGG
TCTAGGAAGATCCTGACACATAAGAACTTTGGCTTAGAGAGCTTTCCAGGTGTAGTGCCAATAAAAAGTACCTG
GAAAGAAAACCTGCCCAGCACGGAACATGCTTTCTGAACTCACTTGAGAGTGTATGGTGTATGTCACCTTCTCATA
TATTTCTGAGTTTAGATTGTCTTTTATACAATTTTATAGCTCTTTTCCAGTTCACTTGTGCTCGTCTGTATATTG
GTATTTTTTAAATTTTTGTGGTAAATAATGAAAAGAGTGAAATTATATTTTATAATTACTCATTGTAGTTTTTTT
TTTTAATTTAATAAACTTCTCCAAAAGTGCTCCCTTAAAA

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FIGURE 1370

MAAEEEEAAAGGKVLREENQCIAPVVSSRVSPGTRPTAMGSFSSHMTEFPRKRKGSDSDPSQVEDGEHQVKMKA
EAHSQTEKRRRDKMNNLIEELSAMIPQCNPMARKLDKLTVLRMAVQHLSLKGLTNSYVGSNYRPSFLQDNELRH
LILKTAEGFLFVVGCEGKILFVSKSVSKILNYDQASLTGQSLDFLHPKDVAKVKEQLSSFDISPREDLIDAKT
GLQVHSNLHAGRTRVYSGSRRSFFCRIKSKISVKEEHGCLPNSKKKEHRKFYTIHCTGYLRSWPPNIVGMEEER
NSKKDNSNFTCLVAIGRLQPYIVPQNSGEINVKPTEFITRFAVNGKFVYVDQRATAILGYLPQELLGTSCYEYFH
QDDHNNLTDKHKAVLQSKEKILTDSYKFRADGSGFVTLKSQWFSFTNPWTKELEYIVSVNTLVLGHSEPGEASFL
PCSSQSSEESSRQSCMSVPGMSTGTVLGAGSIGTDIANEILDQLRLQSSSYLDDSSPTGLMKDTHTVNCRSMSNK
ELFPPSPSEMGELEATRQNSTVAVHSHEPLLSDGAQLDFDALCDNDDTAMAAFMNYLEAEGGLGDPGDFSDIQW
TL

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FIGURE 1371

AGAGGTTCTCAGCCTCATGACTCCTAAACTCCTGGTACTTGAGCACCGATCTGCTTCGGAGAACCTGATTCTGAG
ACTCCAGCAGGATGTCTTATCAACAGTAGCAATGTAAGCAGCCCTGCCAGCCACCTCCTGTGTGCCGCCTGCCAA
AGCGTCCAGAGCCATGTCCACCCCTGAAGTGCCCTGAGCCCTGCCCCACCACCAAAGTGTCACAGCCCTGCCCCAC
CTCAGCAGTGCCAGCAGAAATATCCTCTGGTGACACCTTCCCCACCCTGCCAGCCAAAGTGTCACCCAAAGAGCA
AGTAACAGCTTCGGAATTCATCAGGACCACGAAAGGATAGGGATAATTGGCTCACCTCGTTCCACAGCTCCACCT
GCATCTTCTCATCAAAGCCATCCAGGGATACACAGGGAGCTTCTTTCCCCTTAGCCTGTGATCTGCCCATGATGA
TCCCCGACAGCAAAATGTTTCCTTTCTGAGGCTGCCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAAGGAAGT
CCTCAGCTGTACCGGCCTTTTCTGAGGCTTCTCTTTGGGTGCCATCAAAGAATTATTTTGATGTCTTCTGTCTCTGT
CTGTCACCTGGCATGAGCTTCTACTATCTGTGCAATTGTCACCTTTCTTTCACTCCCTGAATAAAGTAGCTATGC
CTA

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FIGURE 1372

MSYQQXQCKQPCQPPFVCRLPKRPEPCPFLLKCFEPCPPPKCPQPCPPQQCQKYPLVTPSPPCQPKCPPKSK

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FIGURE 1373

ATGGTCCGAGGGGGGCGGGGCTGACGTCGCGCTGGGAATGCCCTGGCCGAGACACTGAGGCAGGGTAGAGAGCGC
TTGCGGGCGCCGGGCGGAGCTGCTGCGGATCAGGACCCGAGCCGATTCCCGATCCCGACCCAGATCCTAACCCGC
GCCCCCGCCCCGCCGCCGCCGCCATGTACGACGAGAGCGCGGCTGGAGCTTGTCCTTCGCGGGGCTGCGGGCTTCC
TGGGCTTCTACACGTCGCGGGCGACCCGCTGCCTGAGCGAGCACGCCCCGCACCTCCTCCGCGACGCGCGCATGT
TGTTCCGGCGCTTCGGCCGGGGCGTTGCACTGCGTCGGCGTCTCTCCGGTATCCCGCTGGAGCAGACTCTGCAGG
TCCTCTCAGATCTTGTCGGAAGGCCAGGAGTCGGAACATTGGCATCTTCCATCCATCCTTCAACTTAAGCAAGT
TCCTCCGACAGGGTCTCTGCAATGCCTCCCGGCCAATGTCCACCAGCTCATCTCCGGCAAAATAGGCATCTCTC
TTACCAGAGTGTCTGATGGGGAACGTTCTGGTGTCTGACTTTCGGTCCAAAGACGAAGTCGTGGATGCCTTGG
TATGTTCTGCTTCAATCCCTTCTACAGTGGCCTTATCCCTCCTTCTTCAGAGGCGTGCGATATGTGGATGGAG
GAGTGAGTGACAACGTACCCCTTATTGATGCCAAAACAACCATCACCGTGTCCCCCTTCTATGGGGAGTACGACA
TCTGCCCTAAAGTCAAGTCCACGAACCTTCTTTCATGTGGACATCACCAAGCTCAGTCTACGCCTCTGCACAGGGA
ACCTCTACCTTCTCTCGAGAGCTTTTGTCCCCCGGATCTCAAGGTGCTGGGAGAGATATGCCTTCGAGGATATT
TGGATGCATTACAGTTCTTGGAAGAGAAGGGCATCTGCAACAGGCCCCAGCCAGGCCTGAAGTCATCTCAGAAG
GGATGGATCCTGAGGTGCGCATGCCAGCTGGGCAACATGAGTCTGGATTCTTCCCCGGAGTCGGCTGCCTTGG
CTGTGAGGCTGGAGGGAGATGAGCTGCTAGACCACCTGCGTCTCAGCATCTGCCCTGGGATGAGAGCATCTGG
ACACCCTCTCGCCAGGCTCGCTACAGCACTGAGTGAAGAAATGAAAGACAAAGGTGGATACATGAGCAAGATTT
GCAACTTGCTACCCATTAGGATAATGTCTTATGTAATGCTGCCCTGTACCCTGCCTGTGGAATCTGCCATTGCGA
TTGTCCAGAGACTGGTGACATGGCTTCCAGATATGCCCGACGATGTCTGTGGTTGCAGTGGGTGACCTCACAGG
TGTTCACTCGAGTGTGATGTGTCTGCTCCCCGCTCCAGGTCCCAAATGCCAGTGAGCAGCCAACAGGCCTCCC
CATGCACACCTGAGCAGGACTGGCCCTGCTGGACTCCCTGCTCCCCCAAGGGCTGTCCAGCAGAGACCAAAGCAG
AGGCCACCCCGCGGTCCATCTCAGGTCCAGCCTGAACTTCTTCTGGGCAATAAAGTACCTGCTGGTGTGAGG
GGCTCTCCACCTTTCCAGTTTTTCACTAGAGAAGAGTCTGTGAGTCACTTGAGGAGGCGAGTCTAGCAGATTCT
TTCAGAGGTGCTAAAGTTTCCCATCTTTGTGCACTACCTCCGCATTGCTGTGTAGTGACCCCTGCCTGTGACGT
GGAGGATCCCAGCCTCTGAGCTGAGTTGGTTTTATGAAAAGCTAGGAAGCAACCTTTCGCCTGTGCAGCGGTCCA
GCACTTAACCTAATAACATCAGCATGCGTTAATTACAGCTGGTTGGGAAATGACACCAGGAAGCCAGTGACAGAGG
GTCCCTTACTGACTGTTTCGTGGCCCTATTAATGGTCAGACTGTTCCAGCATGAGGTTCTTAGAATGACAGGTGT
TTGGATGGGTGGGGGCCCTTGTGATGGGGGGTAGGCTGGCCCATGTGTGATCTTGTGGGGTGGAGGGAAGAGAATA
GCATGATCCCACTTCCCCATGCTGTGGGAAGGGGTGCAGTTTCGTCCCCAAGAACGACACTGCCTGTGAGGTGGTC
TGCAAAGATGATAACCTTGACTACTAAAACGCTCTCCATGGCGGGGGTAACAAGATGATAATCTACTTAATTTTA
GAACACCTTTTTACCTAACTAAAATAATGTTTAAAGAGTTTTGTATAAAAAATGTAAGGAAGCGTTGTTACCTGT
TGAATTTTGTATTATGTGAATCAGTGAGATGTTAGTAGAATAAGCCTTAAAAAAAAAAAAATCGGTTGGGTGCAG
TGGCACACGGCTGTAATCCAGCACTTTGGGAGGCCAAGGTTGGCAGATCACCTGAGGTCAGGAGTTCAAGACCA
GTCTGGCCAACATAGCAAACCCCTGTCTCTACTAAAAATACAAAAATTATCTGGGCATGGTGGTGCATGCCTGTA
ATCCCAGCTATTTCGGAAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCGGTGAGCTGAGATT
GCACCATTTTCACTCCAGCCTGGGCAACATGAGTGAAAGTCTGACTCAAAAAAAAAAAAAATTTAAAAACAAAATAA
TCTAGTGTGCAGGGCATTACCTCAGCCCCCAGGCAGGAGCCAAGCACAGCAGGAGCTTCCGCCTCCTCTCCAC
TGGAGCACACAACCTTGAACCTGGCTTATTTTCTGCAGGGACAGCCCCACATGGTCAGTGAGTTTCTCCCCATGT
GTGGCGATGAGAGAGTGTAGAAATAAAGAC

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FIGURE 1374

MYDAERGWSLSFAGCGFLGFYHVGATRCLSEHAPHLLRDARMLFGASAGALHCVGVLSGIPLEQTLQVLSDLVRK
ARSRNIGIFHPSFNLSKFLRQGLCKCLPANVHQLISGKIGISLTRVSDGENVLVSDFRSKDEVVDALVCSCFIPF
YSGLIPPSFRGVRYVDGGVSDNVFFIDAKTTITVSPFYGEYDICPKVKSTNFLHVDITKLSLRLCTGNLYLLSRA
FVPPDLKVLGEICLRGYLDAFRFLEEKGICNRQPGLKSSSEGMDPEVAMP SWANMSLDSSPESAALAVRLEGDE
LLDHLRLSILPWDESILDTLSPRLATALSEEMKDKGGYMSKICNLLPIRIMSYVMLPCTLPVESAI AIVQRLVTW
LPDMPDDVLWLQWVTSQVFTRVLMCLLPASRSQMPVSSQQASPCTPEQDWPCWTPCSPKGC PAETKAEATPRSIL
RSSLNFFLGNKVPAGAEGLSTFPSFSLEKSL

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FIGURE 1375

ACACTGCCTCGGTTTCGGCAAGTGGGTCAAGTTGGCTGGGGCTCACTTGGCAACGGGACGCGGGAACGAGGGGCGCG
GACGCAGGCCCGGGAGGACGCGGCGGGGGAACCTGGGGGCGCAGGGCTAGGGCAGCGGGCCGACCCGCACGGC
TTTCTTGAAAGCGCTGCCCCCTCGCCGCGGCGATGACCTCGCTGTGGAGAGAAATCCTCTTGAGATCGCTGCTGG
GATGTGTTTCTTGGTCTCTCTACCATGACCTGGGACCGATGATCTATTACTTTCTTTGCAAACACTAGAACTCA
CTGGGCTTGAAGGTTTTAGTATAGCATTCTTTCTTCCAATATTCTTAACAATTACTCCTTTCTGGAAATTGGTTA
ACAAGAAGTGGATGCTAACCCTGCTGAGGATAATCACTATTGGCAGCATAGCCTCCTTCCAGGCTCCAAATGCCA
AACTTCGACTGATGGTTCTTGGCGTTGGGGTGTCTTCTCACTGATAGTGCAAGCTGTGACTTGGTGGTCAGGAA
GTCATTTGCAAAGGTACCTCAGAATTTGGGGATTCAATTTTAGGACAGATTGTTCTTGTGTTCTACGCATATGGT
ATACTTCACTAAACCCAATCTGGAGTTATCAGATGTCCAACAAAGTGATACTGACATTAAGTGCCATAGCCACAC
TTGATCGTATTGGCACAGATGGTGAAGTGCAGTAAACCTGAAGAAAAGAAGACTGGTGAAGTAGCCACGGGGATGG
CCTCTAGACCCAACCTGGCTGCTGGCAGGGGCTGCTTTTGGTAGCCTTGTGTTCTCACCCTGAGGTTTTTGGAG
AAGTCTCTCTTGTTCAGATGGGCAGTGAAGTGGGCATCCACATCCAGGGCCAGATCCTAACCCTTTGGAGGTG
CAGTACTGCTGTGCTTGGCAAGTGGATTGATGCTTCCATCTTGTGTTGTTGTTCTACGCATATGGT
GGGTTACAGGAACAGCTTCAGCTGCGGGGCTCCTTTACCTGCACACATGGGCAGCTGCTGTGCTGCTGCTGCT
TCGCCATCTTTACTGCATCCATGTGGCCCCAAACACTTGGACACCTTATTAACCTCAGGGACAAACCTGGGAAAA
CCATGACCATTGCCATGATATTTTATCTTCTAGAAATATTTTCTGTGCCTGGTGCACAGCTTTTAAGTTTGTC
CAGGAGGTGTCTACGCTAGAGAAAGATCAGATGTGCTTTTGGGGACAATGATGTTAATTATCGGGCTGAATATGC
TATTTGGTCTTAAGAAAAACCTTGATTTGCTTCTTCAAACAAAAAACAGTTCTAAAGTGCTTTTCAGAAAGAGTG
AAAAATACATGAACTTTTTCTGTGGCTGCTTGTGTTGGTGTGGGATTGTTGGGATTAGGACTACGGCATAAAGCCT
ATGAGAGAAAACCTGGGCAAAGTGGCACCAACCAAGAGGTCTCTGCTGCCATCTGGCCTTTTCAGGTTTGGATATG
ACAATGAAGGTGGTCTAGTCTAGAAAGATCAGCTCACCTGCTCAATGAAACAGGTGCAGATTTTATAACAATTT
TGGAGAGTGATGCTTCTAAGCCCTATATGGGGAACAATGACTTAACCATGTGGCTAGGGGAAAAGTTGGGTTTCT
ATACAGACTTTGGTCCAAGCACAAGGTATCACACTTGGGGGATTATGGCTTTGTCAAGATACCCAATTGTGAAAT
CTGAGCATCACCTTCTTCCGTACCAGAGGGCGAGATCGCACCAGCCATCACATTGACCGTTAACATTTTCGGGCA
AGCTGGTGGATTTTGTGCTGACACACTTTGGGAACCAAGATGACCTCGACAGGAACTGCAGGCTATTGCTG
TTTCAAACTACTGAAAAGTAGCTCTAATCAAGTGATATTTCTGGGATATATCACTTCAGCACCTGGCTCCAGAG
ATTATCTACAGCTCACTGAACATGGCAATGTGAAGGATATCGACAGCACTGATCATGACAGATGGTGTGAATACA
TTATGTATCGAGGGCTGATCAGGTTGGGTTATGCAAGAATCTCCCATGCTGAACTGAGTGATTGAGAAATTCAGA
TGGCAAAATTTAGGATCCCTGATGACCCCACTAATTATAGAGACAACCAGAAAGTGGTCATAGACCACAGAGAAG
TTTCTGAGAAAATTCATTTTAATCCAGATTTGGATCCTACAAAGAAGGACACAATTATGAAAACAACCATAATT
TTCATATGAATACTCCCAAATACTTTTTATGAAACATTTAAACAAGAAGTTATTGGCTGGGAAAATCTAAGAAA
AAAAAGTATGTAAGATAAAAAGAAGAGATTAATGAAAGTGGGAAAAATACACATGAAGAACCTCAACTTAAAAACA
CATGGTATCTATGCAGTGGGAAATTACCTCCATTTGTAAACTATGTTGCTTAATAAAAACATTTCTCTAAAAAAA
AAAAAAAAAAAA

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FIGURE 1376

MTSLWREILLESLLGCVSWSLYHDLGPMIYYFPLQTLTLELTGLEGFSAIFLSPIFLTITPFWKLVNKKWMLTLLRI
ITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQRYLRIWGFILGQIVLVVLRIWYTSLNPIWSYQ
MSNKVILTLSAIATLDRIGTDGDCSKPEEKKTGEVATGMASRPNWLLAGAAFGSLVFLTHWVFGEVSLVSRWAVS
GHPHPGPDNPFGGAVLLCLASGLMLPSCWFRGTGLIWWVTGTASAAGLLYLHTWAAAVSGCVFAIFTASMWPQ
TLGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMLIIGLNMLFGPKKNLDDL
LQTKNSSKVLFRKSEKYMKLFLWLLVGVGLLGLGLRHKAYERKLGKVAPTKEVSAAIWPFRFGYDNEGWSSLERS
AHLNETGADFITILES DASKPYMGNNDLTMWLGEKLGFTDFGPSTRYHTWGIMALSRYPIVKSEHHLLPSPEG
EIAPAITLTVNISGKLVDFVVFTHFGNHEDDLDRKLQAI AVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV
KDIDSTDHHRWCEYIMYRGLIRLG YARISHAELSDSEIQMAKFRIPDDPTNYRDNQKVVIDHREVSEKIHFNPRF
GSYKEGHNYENNHNHFMNTPKYFL

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FIGURE 1377

ATAATTCACCAATAAAGGACTTACAGGTGTTTCATAACTTGTCTAAGCTCAAATCTCCCATATATAACTTGCTGGC
AAATCATTTTATTTCCAGGGCATTAGCTATGAGTTGCTAGCTTTAAGTTGAACTATATCCTGTGCATGGCTTACTTCG
AATTGACATGCTGCAGGCTGTATCTTGACATGAACAAGATAGCATGTGATGTGGCTTTGTTTTAATTCAGTTAGC
CACTGGTTTTTTAATGTGTGGGTATATTCTACTCCCAAAGCAAAATTCGTGTGGCATCTCTGGAATACTACCTGAG
AATTTTTGTGTGCCATGTCGAAGAAACGCAAATGGGATGATGACTATGTTTCGCTACTGGTTCACCTGTACAACGG
AAGTAGATGGAACCTCAGCGTCCACAGTGTGTGTTGTGTAACCTCAGTATTTTCAAATGCTGACCTCAGACCATCAA
AACTGTCAGACCATTTTAAACAGACAGCATGGTGGTGTAGCTGGGCATGATCTCAATAGCCTGAAGCATATGCCAG
CACCATCTGATCAGAGTGAAACCTTGAAAGCATTTGGAGTTGCATCTCATGAGGATACTTTATTACAAGCATCGT
ATCAATTTGCGTATTTATGTGCCAAGGAGAAGAATCCTCATAACAGTAGCTGAAAAGTTAGTGAAACCTTGTGCAC
TGGAAATAGCACAAATAGTTTTGGGACCAGATGCACAAAAAAGCTTCAGCAGGTACCCTTATCAGATGATGTGA
TCCATTCTAGAATTGATGAAATGAGCCAGGATATCTTACAGCAAGTTCTAGAAGATATCAAAGCCAGTCCCTCTTA
AAGTGGGTATTTCAGCTTGCTGAGACAACCTGACATGGATGACTGCAGTCAGCTAATGGCATTGTGTGCGCTATATAA
AAGAAAGAGAGATCGTAGAAGAATTTCTCTTCTGTGAACCATTGCAGCTATCCATGAAAGGAATAGATGTGTTCA
ATCTCTTCAGAGACTTCTTTCTGAAGCATAAGATAGCACTTGATGTATGTGGCTCTGTTTGTACTGATGGTGCCT
CCTCTATGCTAGGAGAAAATTCGAGTTTTGTTGCCTACGTGAAAAAAGAGATACCTCATATCGTAGTTACACATT
GTTTATTGAATCCTCATGCACTTGTCTATAAAGACATTGCCTACAAAACCTGAGGGATGCTCTGTTTACTGTGGTGA
GGGTAATAAATTTTCATCAAAGGGAGAGCTCCAAATCATCGCCTATTTTCAGGCTTTCTTTGAAGAAATTGGCATAG
AATATAGTGTCTCTCTTTTCCATACTGAAATGAGGTGGCTTTCCCGAGGCCAAATACTTACTCACATTTTTGAAA
TGTATGAAGAAATAAATCAGTTTTCTTACCACAAGAGCAGTAATTTAGTTGATGGCTTTGAAAATAAAGAGTTTA
AAATTCACCTAGCATACCTTGAGATTTATTCAAACACTTAAATGAACTCAATGCATCTATGCAGAGGACTGGGA
TGAACACAGTATCAGCTAGAGAGAAGTTATCTGCTTTTGTAGGAAGTTCCATTTTGGCAAAAACGAATTGAGA
AAAGAAATTTTACCAATTTTCTTTTCTTGAAGAAATAATTGTTTCGGATAATGAAGGCATATTCATTGCAGCTG
AAATAACACTGCATCTGCAACAATTGAGCAACTTCTTCCATGGATATTTTCCATTGGAGATCTTAATGAGGCAA
GTAAATGGATATTGGATCCATTTCTTTTAAATATCGATTTTGTGATGATAGTTATTTAATGAAAAATGATCTTG
CTGAATTACGAGCTAGTGGCCAAATCCTAATGGAATTTGAGACAATGAAGCTTGAGGATTTCTGGTGTGCCCAAT
TCACAGCATTTCCAAACCTGGCAAAGACAGCTCTAGAAATCCTTATGCCATTTGCAACTACATACCTTTGTGAGT
TGGGATTTTCATCACTTTTACATTTCAAACCAAAGTCCAGAAGCTGCTTTAATCTGAGTGATGATATCCGTGTGG
CTATTTCAAAAAAAGTTCCTCGTTTTCTCGGACATCATTGACCAAAAAGCTACAGCTACAACAGAAGTCACTGTAAG
CTGATATACTTTTTTAAIGAATAATTTCAATCTTAATATCATTGTAAAAATTAAGCTGTAATTCGTCTCTTTTCAT
ATTTATGATATACTGAATTCATGTCTAAAAAAGCTTAAGAACTTTAATTTTGAATGAGGCATGTGAAAATATGTT
TTGAGAATAAAAAACACAGCAGAAAAGATTAAGTAAAAA

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FIGURE 1378

MSKKRKWDDDYVRYWFTCTTEVDGTQRPQCVLCNSVFSNADLRPSKLSDFNRQHGGVAGHDLNSLKHMPAPSDQ
SETLKAFGVASHEDTLLQASYQFAYLCAKEKNPHTVAEKLVKPCALEIAQIVLGPDAQKKLQQVPLSDDVIHSRI
DEMSQDILQQVLEDIKASPLKVGIQLAETDMDDCSQLMAFVRYIKEREIVVEEFLFCEPLQLSMKGIDVFNLFDRD
FFLKHKIALDVCGSVCTDGASSMLGENSEFVAYVKKEIPHIVVTHCLLNPHALVIKTLPTKLRDALFTVVRVIN
IKGRAPNHRLFQAFFEEIGIEYSVLLFHTEMRWLSRGQILTHIFEMYEEINQFLHHKSSNLVDGFENKEFKIHLA
YLADLFKHLNELSASMORTGMNTVSAREKLSAFVRKFPFWQKRIEKRNFNTNFPFLEEIIIVSDNEGIFIAAEITLH
LQQLSNFFHGYFSIGDLNEASKWILDPFLFNIDFVDDSYLMKNDLAE LRASGQILMEFETMKLEDFWCAQFTAFP
NLAKTALEILMPFATTYLCELGFSSLLHFKPKSRSCFNLSDDIRVAISKKVPRFSDIIDQKLQLQKSL

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FIGURE 1379

ATGGGGGCGTGGGCCCTGGCAAGTGCACTCCTCAGCCAATCAGCGTCCTGCCCCGGCTGGTGGATTTCGGTTACAAG
CCCAAGATCACCCATACTCCAGCCTCTTTCTCCTCCTCCCGCAGCTCCATTTCATTGGTCCCGCCGCACCGGGC
CTGCTGGGGCTCCGCTTCCGTTCCACTGCTCAGCTGCCGCCTGGTGGGGGCCACCAAGGGCAGGCATCCCAGGGGCT
TTGTCTGACTGGACTGGGCCAGTGCAGAAATGGGGGTTTCAGGCAGGGCTGTTTGGGATGCTGGGGCTTCTGGGGGT
GGCCCTGGGGGGCTCCCTTGCCCTCCGCTGGTACAGGACCTCCTGCCACTTGACCAAGGCCGTCCCTGGCAACCC
ACTGGGGTACCTGAGCTTCTGGCCAAGGATGCTCAGGGACTGGCCCTGATCCATGCCCGCTGGGATGCGCATAG
GAGGCTGCAGGCATGTAGCTGGGAGGATGAGCCGGAGCTCACCGCAGCCTACGGTGCTCTCTGTGCTCATGAGAC
TGCTGGGGCTCCTTCATCCACACCCCCGGACCCGAGCTGCAGAGAGCACTGGCCACTCTTCAGAGTCAGTGGGA
GGCATGCCGAGCGCTTGAGGAGAGTCCAGCAGGGGGCCAGGAAGAAGCGAGCAGCAGGGCAGAGTGGAGTCCCTGG
TGGAGGGCACCAGCGAGAGAAGAGAGGATGGACCATGCCTGGCACACTGTGGTGTGGAGTTGGAGATTCTGCTGG
GAATCCTCGGAGCTGGGGGTCTTCAGGGACCTGATCTCTGTTGCCGGGAACATGACCGCTGCCACAGAACAT
CTCACCTTGCACTACAATATGGCATCCGAACTACCGATTCCACACCATCTCCCACTGTGACTGTGACACCAG
GTTTCAGCAATGCCTACAGAATCAGCACGACTCCATCTCGGACATCGTGGGCGTGGCCTTCTTCAACGTGCTGGA
GATCCCCTGCTTTGTGCTGGAGGAGCAGGAGGCGTGTGTGGCGTGGTACTGGTGGGGCGGGGTGTAGGATGTACGG
CACAGTGGCCCTCGCTCGCCTGCAGCCAGGACCTTCTACAATGCCTCCTGGAGCTCCCGGGCCACCTCCCCAAC
TCCCAGCTCCCGGAGCCAGCCCTTCCCAAGCCTCGACAGAAGCAGCACCTTCGGAAGGGGCCACCACATCAGAA
AGGGTCCAAGCGCCCCAGCAAAGCCAACACCACAGCCCTCAGGACCCTATGGTCTCTCCAGGCTTGATGTGGC
CCCCACAGGCCTCCAGGGCCACAGGGTGGCCTAAACCTCAGGGTGCCCGCTGGGTCTGCCGCAGCTTCCGCCG
CCACCTGGACCAGTGTGAGCACCAGATTGGGCCCCGGGAAATCGAGTTCAGCTGCTCAACAGCGCCCCAAGAGCC
CCTCTTCCACTGCAACTGCACGCGCCGTCTGGCACGCTTCTTGAGGCTCCACAGCCACCCGAGGTTACCAACAT
GCTTTGGGAGCTGCTGGGCACAACCTGCTTCAAGCTGGCCCTCCACTGGACTGTGTGGAAGGCAAAAAGTGTTC
CAGAGACCTAGGGCCATCAGGGTGTGAGCCCGGCACTTGCGGAGGCTTCAGCAGAGGCGACACCAGCTCCAGGA
TAAAGGCACAGATGAGAGGCAGCCATGGCCTTCAGAGCCCTGAGAGGCCCATGTCAATTCTACAACAGTGCCT
GCAGCTAACCAGGCAGCCAGGAGACCCGACAGGCAGCAGAAGTCTGGAGCCAGTGACCTCAGTTTCAGCTTTC
CTGGGCACCAGCCTGGACCTTGCCCATGGCTATGCCAAGCCTTGGAATCTCAGCCTCCCCTCCGTAGGTTAGAC
TGAAGCATGGCAGAGGCTGTTGTGGACAATCAAGAGGATGAATGGGGGGATCTCAAGGCCCAAATGCTGGACCAC
ATCTCCTGCTGTTCTGGGTAACCTTGAGCTATGTATGACACAACCTCTTCTATGCCTGGATGTGGTGTTCAGGAAG
CTCATTTCTGATGCCCTGGGCTTTGGCCTTGCCAGGGAACTTCACATACAGATGAGAATGGGGAAAGGGTAACTTA
TTGCAGCAGCCCCAGGCAGTACCAGGAGGAGGTACATGTATGTCCGTGTTGCAAAAATAATACATGCCTCAAAAA
CCTGCCTAGGGGAGCCCTAGTGCCTGGGTGCTGTGGCCTGAGGTAGCAGGTGGGAAGTTAGGGATGTACAGAAA
TGTCTGTGCTGAATCCAGGATTGGGGTGGGTGTTGGAGAGGGCTTTCAGCTCCCCTCCTCCAGGGGGGCTCT
TTTTTTAACGGCTGCCGTGCCCTTCTGGCCAGCCCTAAACCTAAATTCAAATCTCCTCCATGCCTTTGCGCAA
AGGACCTCCCTCTTGCACTCTAAGCCTTAGTTTCTCCTCTAAAAAAGGGGGTCTCTAAACAGGAGCTACCTCA
TAGGGTTGTTGAGGATTAAGTGAACCAATACATATACAGTGCTTAGCACTTAATAAGTATCCCCCTGCGACAC
CTAGCTGAACTATGGTTTGGTGTCTGATCTTGAGAGGTTGATGTAACCTTTTAAAGGCCTCAGTTCGCTCACCTG
TGAAATGGGTCTAAGAATAGCACTGATCTCACAGGGTTGTGATGCAGATTAAAGGAGATGGCATGTGTAATGAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1380

MGVQAGLFGMLGFLGVALGGSPALRWYRTSCHLTKAVPGNPLGYLSFLAKDAQGLALIHARWDAHRRLOACSWED
EPELTAAYGALCAHETAWGSFIHTPGPELQRALATLQSQWEACRALEESPAGARKKRAAGQSGVPGGGHQREKRG
WTMPGTLWCGVGDSAGNSSELGVFQGPDLCCREHDCRPQNISPLQYNYGIRNYRFHTISHCDCDTRFQQCLQNH
DSISDIVGVAFFNVLEIPCFVLEEQEACVAWYWWGGCRMYGTVPLARLQPRTFYNASWSSRATSPTPSSRSPAPP
KPRQKQHLRKGPPhQKGSKRPSKANTTALQDPMVSPRLDVAPTGLQGPQGGLKPQGARWVCRSFRRHLDQCEHQI
GPREIEFQLLNSAQEPLFHCNCTRRLARFLRLHSPPEVTNMLWELLGTTCTFKLAPPLDCVEGKNCSRDPRAIRVS
ARHLRRLQQRRLQDKGTDERQPWPSEPLRGPMsfYNQCLQLTQAARRPDRQQKWSQ

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FIGURE 1381

GAGCGCCTTCCCGTTCCCGGTGACCGTGTGCTGTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCT
GCGCGCCTGGCGCGTGCCCCCGCGCCCGCGTCTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCCGGCCCCGCT
GCTGCCGCCGCGCTTCTACCCGCGCTACGTGCTACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTTGTCAGCGCA
CGTCAGCATCTGGAAGGTGCCCGTGTCTATGCACACACCGTCAAGGCCACCATGCCCCATCTGGGTGGTCCCTCCT
GTCCCGGATCATTATGAAGGAGAAGCAGAGCACCAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTCCT
GCTGGCCACCGTCACCGAGTTGTCTTTTGACATGTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTC
GCTTCAGAACATTTTCTCCAAAAGGTCTTGCGAGATTACGGATCCACCATCTCCGGCTGCTCAACATCCTGGG
CTGCCACGCCGTCTTCTTTATGATCCCCACCTGGGTCTGCTGGTGGACCTCTCGGCTTTCCTGGTCAGCAGCGACTT
GGTGAGTTGTACAGCACCAAGAACACGCCATTTTCTTGGCTAGTTCCAGAATAGGTGCTTTGTTGAGGAGCTGTA
GCTGCATGTTAACATTGTGGTATCTTTTGGGCACCTGACAGCCAGCGCTTTCAGCAGTCAGTCCCTCTGTAATGCC
TCACGGTGACGATGCACGCCATCGAGGAAGTGGGTTTCTGTGTATTTCCTTCTCTGGTGTGCTTGATCCAGGT
GCTGATAGCTGCTGTGTGTGCGCCAGTAGCGTCAAGGAAGAGAAGGTGACTCTTTCACCTCCTGACAGTATAGTC
CAGATAGCACATTGACTTTTTTATTTTACTCATTTTTTATTTTAAATGTTTATTTTTTTAGAGACAGAACCTCGCT
CTGTTGCCAGGGCTGGAGTGCAGTGGCACAATCATGGCTCACTGCGGCCCTTGACCTCAATCCGGGGCTCAAGCGA
TCCTCCCACAGCCTCCCGAGTAAGTGGGACTGCAGGCGAATACCACCATGCCTGGCTAATTTTTTTTTTGTGTTGAT
TTTTGTTTTTTTACTGTTTTTGGAGAGACAGGGTCTCGCTATGTTGCCCAGGCTGGTCCCTGAACCTCCTGGCGTTA
AGAGATCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACTGTGCCTTGCCAGCCCTGGAACTTT
GAAAACATATGCACTGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAGCCGGGCGCAGTGGCTCACGCCTGTAATCC
CAGCACTCTGGGAGGCCAAGGCGGGCGGATCACGAGGTGAGGAGTTTGAGACCAGCCTGGCCAATATGGTGACAC
CCTGTTTCTCCCAAAAATACAAAATTAGCCAGGCATGGTGGCTCGCGCCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGAAGAATTGCTTGAACCCAGGATGTGGCGGTTGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTG
GGTGACAGAGGGGAGACTCCGTGTCAAAAAAAAAAAGAAAAAACGTGCGCTGCCTGGGTGTGGTGGCTTACGCTT
ATAATCCCAGCACTTTGGGAGGCCAAGGTGTGTGAATCATTCGAGGTGAGGAGTTCGAGACCAGCCTGACCAATA
TGGTGAAATCCTGTCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGTGACGCCTGTAATCCCAGCCACTT
GGGAGGCTGAGGTGGGAGAATCGCTTGAACCCAGAAGGCAGAGTTTGCAGTGAGCCGAGATCGCACCCTGCACT
CCAGCCTGGGCAACAAGTGTGAAGCTCCGTCTC

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FIGURE 1382

MPIWVLLSRIIMKEKQSTKVYLSLIPITISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVL RDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLVSCTAPRTRHFLG

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FIGURE 1383

CCAAGATTCTGGCACGAGGGACTGTACTGAACAGCAAAAATTAAGTGAATTGCTGCCCTGCACATCATGGCACTGC
CATTCCGTAAGGACTTAGAAAAGTACAAAGACCTTGATGAAGATGAGCTCCTTGGGAATCTGTCAGAAACAGAAC
TGAAACAACTGGAACTGTTTTGGATGATCTTGACCCCGAGAATGCCCTTCTGCCCTGCAGGGTTCCGGCAGAAGA
ACCAGACATCAAAGTCCACCACAGGGCCATTTGATAGAGAGCATCTCCTTTTCATATCTGGAGAAAGAAGCATTGG
AGCATAAAGACAGGGAAGACTATGTGCCCTACACTGGAGAAAAAAGGGAAAAATATTTATCCCCAAACAGAAAC
CTGTACAGACTTTTACAGAAGAAAAAGTGTCTCTTGATCCAGAATTAGAAGAAGCTTTGACAAGTGCTTCTGATA
CAGAATTGTGTGACCTCGCAGCAATTCTTGGGATGCACAATTTGATAACGAATACAAAGTTCTGTAATATAATGG
GAAGTAGTAATGGTGTGACCAAGAACATTTTTCAAATGTGGTCAAAGGTGAAAAGATTCTTCCGGTATTTGATG
AGCCACCAAATCCAACCAATGTAGAAGAGAGTTTGAAGAGAACTAAAGAAAACGATGCTCATCTTGTGTAAGTTA
ATTTGAATAATATAAAGAATATCCCAATTCCAACCCTAAAAGATTTTGCAAAGGCTTTGGAAACCAACACACATG
TGAAATGTTTTCAGTCTTGCAGCCACCCGGAGCAATGACCCTGTGCTACTGCTTTTGCAGAAATGCTGAAAGTGA
ACAAAACCTTTGAAGAGCTTAAATGTGGAGTCCAACCTTATCACGGGAGTTGGGATTCTGGCACTGATTGATGCGT
TAAGAGATAATGAAACCCTGGCAGAGCTCAAGATTGACAATCAGAGGCAGCAGTTGGGGACAGCTGTAGAATTGG
AAATGGCCAAGATGCTTGAGGAAAATACAAATATCCTTAAATTTGGATATCAGTTTACACAGCAGGGACCACGAA
CCAGAGCAGCTAATGCTATAACAAAAAACAATGACTTAGTGCGTAAGAGACGAGTTGAAGGAGATCACCAGTTAAG
TCTGCAAAGGTGTAATCTTTGGAAGACTTCAGAAGATCACCAAGGGCTCATGTTGGTGACATCATGTAAAATTTT
CCTGGGTAGAAGGGAAAAGACTGGAAAAATTTTTTTAGTGACATGCATTTTTTTTTTTAGTTGTTATCAAATTGTA
AAATCAGTAATGTGATATTTTATATTCTGAAACATTTCTACTTTCTGCTAAAATCAATTTTAAATTTAGTTTAATT
GAATGATTTATGATGAATCTTGGGCAAAAAAATACAACCTGTAAAAAATTTACAGGTCATTTGTGTAGAATAATT
TGAACATTGTGAGGACCAATCTTTTTTAAATCAAAGGGATGTTGCTGGTATCAGAATTGTTATTGCTTCATTTA
GACATAAAACACTTAAGTGTTCCTTCCTCCGTGACCTGGAGAGTTTCCATTTTTTAAATACATGAACCTGG
CAAGGGTGTGATTTTTCTTTATCAAGAGAACAAAATGCCAGAATGTTAAACAGTTAACTCAAATCTAGTCATC
TGTGTAGGATAAAGCAGGTCTCCCTCCCCACCCCCCAAAAAGGGCTACAGCCAACTCTTAGTTATTTAGGGTAA
GAGAAAAAAGAAAACGTAAACAATGAAATCAAAGATAATAAATATGATAGATTCCAGTATGAGGCACCTTTC
AAAACAGTCATTTAACTGATGGTTACTGTAAGTCAGTTGGAAGCTGGCATGTATGTAAATTACTTGGTGTAC
CCATATCCGAAGAAGTTCCATGTGCAGTGCAGAATTGCATAAACAGTATTTCAATCACTGCTACAAATCTTCCA
ACCAAGAAGGAAAACGTATTCTTCATAAATCTAATTTTTAGTATATGCTTCCTTTCATCTTATACTTTTATCA
ATATTTATAAAAGTCATTTCTATAATAAAGCAGTCTTTCTTGCTCA

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FIGURE 1384

MALPFRKDLEKYKDLDEDELLGNLSETELKQLETVLDDLDPENALLPAGFRQKNQTSKSTTGPFDRHLLSYLEK
EALEHKDREDYVPYTGEKKGKIFIPKQKPVQTFTEEKVSLDPELEEALTSASDTELCDLAAILGMHNLITNTKFC
NIMGSSNGVDQEHFSNVVKGEKILPVFDEPPNPTNVEESLKRTKENDAHLVEVNLNNIKNIPITLKDFAKALET
NTHVKCFSLAATRSNDPVATAFAEMLKVNTLKSINVESNFIITGVGILALIDALRDNETLAELKIDNQRRQLGTA
VELEMAKMLEENTNILKFGYQFTQQGPRTRAANAITKNNDLVRKRRVEGDHQ

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FIGURE 1385

GGCTTACCACAGCCTCAACTTCTCAGGCTCCAGCCATCCTCTCACCTCAGCCTCCCAAGTAGCTAGGACTACAGG
CGTGTGCCACTGTGCCTGGCCTAATTTTATAATTTTAAATGTCTGTAAAGTAAGCAAAATGACTAGTTGAATTGT
ACATTAAATATATCTAATCCCTAAGAGTTTATAATGGAAAGGGATCAAAACTTTTTCAATTGCGATAAAACTCAC
ATAACAAAATTAACCATTTTAAAGTGAACAATTTAGTGGTATTTAGTGCATTACAGTGTCGTGCAGCCAACACC
TGTATCTAGTTCCAAGACATTTTCATCTCCCCAAAAGGAGACCCCATACACGTGAAGCAGTCCCTCTCCCATCCC
CCTCCTCCCATCCGCTAGCAACTGCTAATTTGCTTTTTTGTCTCTATGGATTACCTGTTCTGGATAATTTACATA
AATGGAATTATACAATAAAGGACCGTTTGTCTTAACCTCTTTCACTAAGCATCCATGTTATAGCATATATCAGA
CTTCATTCCTTTATGACTGAATAATACTTTGCTGAATGGATATATCAGTGTATTTATTTGTCCTTTTCATCAGTTGG
TGGACATTTGGGTTCTTTCTACCTTTTGGCTATTGTGACTAGTGGTGTGCAAACATTCATGTACAAGTTTTTGT
TTGAATGCCIGTTGTGCTAGTTCTTTCTAGATTTATACTTAGAAGTGGAAATGCTGGGTCATATGGTAATTTCTCTGT
TTCAACTTTTTGAGAGACCACGAAACCGTTTTCCACAGTGGTGGCACCATTGACATGCCCACTAGAAATATATG
AGAGTTCCATTTTCTTCACATCTTCTGACAGCTTTTGGGGTGTGGGATGATTCGTCTAATTGGGAAAATAAGT
ACCTTATTTGGGCCTATATGGTATTTTAAATCTGTGTGTCTGCTCCCAACTCTGTAGCCCTGCCCTCCCTTAT
ATTGTGTATCCTGTTTCAGATTGTTCCGTTTCTTCTGAGACACTGCATATACCCCTACATGTATCTGTGCTAGG
CATACTCCCTGTAACCTTCATGGCATTTTGTAAATGCTGTGTACCTGTTACGTATACTGAGTGGGAGTGTCTCA
TTTGCTGTAGAATCTCTGCATTAGTGTAGTGTCTGGCACACAGTAGCTGCTCAGGCATTTTTTAAGTATATGAT
TATTGGGAAAACCTACAGAGCTAGGGAGAGATCTGAAGAAATACTAGAAATTTTTTTCTGCAAAGAAAACCTTAGA
AAATTGTTGACATCATCTGTGGCATGCAGCAAAAGTTGATGTAAAAGGAACAGAAAGACCTATGGAGATAATGGG
ATGTAATAACAGAAAACATACAGAAACAATTGGTTCTGAAATCAGTTAAGAGCAGAACTGGAATTCATACTCTGT
GGAATGAATCAGCAATGTGGAAGGAGTAACAAGATTTTTTAAAAAGATTTTGAATTTAGGCTGGGTGCAGTGGCT
CACGCCTGTAACCCCATCACTTTGGGAGGCCAGAGTAGGTGGATTGCTTCAACCCAGGCATTGAGACTAGCCTG
GACAGCATGGCAAAACCTATCTCTACAAAAATAAAAAATTAGCCAGGTGTGGTGGCATGCGCCTGTAGTCCCA
TCTACTTGGGAGGCTGAGGTGGATGGATCACCTGAGCCTGGGAAGTGGAGGTTGCAGTAGGCTGAAGTCATGCCA
CTGCACTCAAACCTGGCGGACAGAGTGAGACCCTATCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1386

MYKFLFECLLSVLLDLYLEVELLGHMVISLFLQFERPRNRFQWWHLTCPLEIYESSIFFTSSDSFLGCWDDSS
NWENKYLIWAYMVFLILCVCSQTL

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FIGURE 1387

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCACTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGCAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGTCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCCTGGAATACAAGGTGCAGGCTGGAAACAGCTCCTTGTACAACACGCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTTCAAGCTGGCCGCCTTCATGAAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTGAAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATTCCCGCGTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGTCTCCTGGGTTTCAAGGTCAACATTGACCATTTGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCAAGTCTTCGCTTCTCTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1388

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQNVSAGVTVVIVRDDLGLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSILKGHRSVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

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FIGURE 1389

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTAA
AAAACAGGATGACCAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAATTGTGAAAATAATCAGCAGCCGGATGTGGATAACCCCTTCAAATTTCTCCTGGGGCCTCCAACCA
CCCCACTGGTGTCTCCTGCTGACAGTGATTTCAATTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTCCAAGGAGACCAGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGGAGCACTTCCCAATGCC
ATTCTCTCTCACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTGGGCCAGCAACA
AGTTCATTACATCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTCACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGAGTGGCCAGACTGTTACCTGGGTTCCTATCTCTCTCACTAGGCAAGTCTTGAGGGC
CTGGGCCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGCTACCCTCAGACTGATGAAGGA
GCTAACACCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCACGAATTCTCTATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCTTGGCTACAACCACTACTA
ATGTCCCTTCCTCTTCTGCCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAGGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAAATACCCTACTAATATACTCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCTGCACAAAGCCTCAGCCTGGTGAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAAGGAAAAACCCATAGGTGGAAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACCTCAAATGGCCTCTGTGTCATATGTCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAACCTGTCTGGAATTACATAAATATAATTCAGAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAACCCCAATCCAAGGAAAATAAGAATAACAGTAAAGTGTTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAAGAATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAACTGAAGATTGGTTCTCTAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1390

MLVNELNHSKEKECQYEKEKAEREVAVRQLQQKRDDVLNKGSAKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGDTPQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSLMLQVFES

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FIGURE 1391

GCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTCGGGCCGCGAGCGGAGCCGGCTGAGCGGGCGC̃C
GAGCTCCCGCCATGCCCCGGAACACGCTGTCCTCGCGCTTCCGCCGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCACAGAAA
ATAGCAGCGCAGTGTACTCCAGTGGCAGGAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTTAAAAAAAAAATAAAAAAGACTCATGTTACCTTGAGAAGAATTCTGGATGCCAGGCT
GGTGAAGAAGGGATTGACAATGGACCATCTTCCTAGGAACTCCCAAGTAACTATTTTCAGGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTGGTCAGATGCAC
CTGTGTGCACIGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGGA¹AAAAAAACCCAAGAGTTTGTACAGACATCCTGTCTTCCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAGTGCCTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1392

MARNTLSSRFRRVDIDEFDENKFVDEQEEAAAAAEPGPDPEVDGLLRQGDMLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVLTNFKSSEIEQAVQSLDRNGVDLLMKYIYKGF EKPTENSSAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

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FIGURE 1393

ATAAAAACCGTCCTCGGGCGCGGCGGGGAGAAGCCGAGCTGAGCGGATCCTCACACGACTGTGATCCGATTCTTT
CCAGCGGCTTCTGCAACCAAGCGGGTCTTACCCCCGGTCTCCGCGTCTCCAGTCCTCGCACCTGGAACCCCAAC
GTCCCCGAGAGTCCCCGAATCCCCGCTCCCAGGCTACCTAAGAGGATGAGCGGTGCTCCGACGGCCGGGGCAGCC
CTGATGCTCTGCGCCGCCACCGCCGTGCTACTGAGCGCTCAGGGCGGACCCGTGCAGTCCAAGTCGCCGCGCTTT
GCGTCTTGGGACGAGATGAATGTCTTGGCGCACGGACTCCTGCAGCTCGGCCAGGGGCTGCGCGAACACGCGGAG
CGCACCCGAGTCAGCTGAGCGCGCTGGAGCGGCGCCTGAGCGCGTGCGGGTCCGCCTGTCAGGGAACCGAGGGG
TCCACCGACCTCCCGTTAGCCCCCTGAGAGCCGGGTGGACCCTGAGGTCTTTACAGCCTGCAGACACAACCTCAAG
GCTCAGAACAGCAGGATCCAGCAACTCTTCCACAAGGTGGCCCAGCAGCAGCGGCACCTGGAGAAGCAGCACCTG
CGAATTCAGCATCTGCAAAGCCAGTTTGGCCTCCTGGACCACAAGCACCTAGACCATGAGGTGGCCAAGCCTGCC
CGAAGAAAGAGGCTGCCCCGAGATGGCCCAGCCAGTTGACCCGGCTCACAATGTCAGCCGCTGCACCGGCTGCCC
AGGGATTGCCAGGAGCTGTTCCAGGTTGGGGAGAGGCAGAGTGGACTATTTGAAATCCAGCCTCAGGGGTCTCCG
CCATTTTGGTGAAGTGAAGATGACCTCAGATGGAGGCTGGACAGTAATTCAGAGGCGCCACGATGGCTCAGTG
GACTTCAACCGGCCCTGGGAAGCCTACAAGGCGGGGTTTGGGGATCCCCACGGCGAGTTCTGGCTGGGTCTGGAG
AAGGTGCATAGCATCACGGGGGACCGCAACAGCCGCCTGGCCGTGCAGCTGCGGGACTGGGATGGCAACGCCGAG
TTGCTGCAGTTCTCCGTGCACCTGGGTGGCGAGGACACGGCCTATAGCCTGCAGCTCACTGCACCCGTGGCCGGC
CAGCTGGGCGCCACCACCGTCCCACCCAGCGGCCTCTCCGTACCCTTCTCCACTTGGGACCAGGATCACGACCTC
CGCAGGGACAAGAACTGCGCCAAGAGCCTCTCTGGAGGCTGGTGGTTTGGCACCTGCAGCCATTCCAACCTCAAC
GGCCAGTACTTCCGCTCCATCCCACAGCAGCGGCAGAAAGCTTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGGC
CGCTACTACCCGCTGCAGGCCACCACCATGTTGATCCAGCCCATGGCAGCAGAGGCAGCCTCCTAGCGTCTTGGC
TGGGCTGGTCCCAGGCCACGAAAGACGGTGACTCTTGGCTCTGCCCAGGATGTGGCCAAGACCACGACTGGA
GAAGCCCCCTTTCTGAGTGCAGGGGGGCTGCATGCGTTGCCTCCTGAGATCGAGGCTGCAGGATATGCTCAGACT
CTAGAGGCGTGGACCAAGGGGCATGGAGCTTCACTCCTTGCTGGCCAGGGAGTTGGGGACTCAGAGGGACCACTT
GGGGCCAGCCAGACTGGCCTCAATGGCGGACTCAGTCACATTGACTGACGGGGACCAGGGCTTGTGTGGGTGCGAG
AGCGCCCTCATGGTGTGCTGTTGTGTGTAGGTCCCCTGGGGACACAAGCAGGCGCCAATGGTATCTGGGCG
GAGCTCACAGAGTTCTTGGAATAAAAGCAACCTCAGAACACTT

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FIGURE 1394

MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAERTRSQLSALERRLSA
CGSACQGTEGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLFHKVAQQQRHLEKQHLRIQHLQSQFGLLDHK
HLDHEVAKPARRKRLPEMAQPVDPAHNVSRHLRLPRDCQELFQVGERQSGLFELIQFGSPFFLVNCKMTSDGGWT
VIQRRHDGSVDFNRPWEAYKAGFGDPHGEFWLGLEKVHSITGDRNSRLAVQLRDWDGNAELLQFSVHLGGEDTAY
SLQLTAPVAGQLGATTVPFSGLSVPFSTWDQDHDLRDKNCAKSLSGGWWFGTCSHSNLNGQYFRSIPQQRQKLK
KGIFWKTRGRYYPLQATTMLIQPMAAEAAS

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FIGURE 1395

GTCGACGAGAGAGAGAGAGAGAGAGAACTAGTCTCGGGGGGCCAAAGGGAAAGAAGAAGAACGGAAGGAACAGAG
GGGGCAAAGCCAACAACCCCCCGTATTTGCCCCCGAGGCTGAAGATGGAAACATTGAATATAAATTGAAGCTGG
TGAATCCATCCCAGTACCGCTTTGAGCACCTGGTGACACAAATGAAGTGGCGGCTCCAGGAGGGACGTGGTGAGG
CCGTCTACCAGATTGGGGTAGAGGACAATGGGCTGCTGGTGGGGCTGGCTGAGGAGGAAATGCGAGCTTCGCTCA
AGACCTGCACCGGATGGCAGAGAAGGTTGGGGCAGACATAACCGTTCTTCGAGAGCGAGAAGTGGATTATGATA
GCGACATGCCCCGGAAGATCACCGAGGTGCTAGTACGAAAGGTCCCTGACAACCAACAGTTCCTAGACCTCCGTG
TGGCCGTCTTGGGGAATGTGGACTCTGGGAAGTCAACTCTGCTTGGAGTCTTGACCCAGGGAGAGCTGGACAATG
GGCGGGGCCGGCTCGGCTCAACCTTTTCCGCCACCTGCATGAGATTGAGTCTGGCCGAACCTCCAGCATCAGCT
TCGAGATCCTGGGCTTTAACAGCAAGGAAGAGGTGGTGAATTACAGCGACTCACGGACAGCAGAAGAGATCTGTG
AGAGCAGCTCCAAGATGATCACCTTCATCGACCTGGCAGGCCACCATAAGTACCTACACACCACCATCTTTGGCC
TCACATCATACTGCCCCGACTGCGCCCTGCTCCTCGTCAGTGCCAACACTGGGATTGCTGGCACCACAAGGGAAC
ATCTGGGGCTGGCCCTGGCCCTGAAAGTGCCTTCTTCATCGTGGTCAGCAAGATCGACCTATGTGCCAAGACCA
CAGTGGAGAGGACAGTACGCCAGCTGGAGCGGGTCTCAAGCAGCCTGGCTGCCACAAGGTCCCCATGCTGGTCA
CCTCTGAGGATGATGCCGTCACTGCTGCCCAGCAGTTTGCTCAGTCACCCAATGTCACCCCATCTTCACATTGT
CCAGTGTGTCTGGAGAGAGTCTGGACCTCCTCAAAGTCTTTCTGAATATTCTGCCACCACTCACCAACAGCAAAG
AGCAGGAGGAACATCATGCAGCAGCTGACGGAGTTCAGGTGGATGAAATCTACACAGTACCAGAGGTGGGGACTG
TTGTTGGAGGAACACTTTCCAGTGGGATTTGCCGTGAGGGGGACCAGCTGGTGGTGGGCCCCACGGATGATGGCT
GCTTCCTGGAGCTGAGAGTATGCAGCATCCAGCGCAACCGCTCTGCCTGTCTGTGCTGCGAGCTGGTCAGGCTG
CTACACTGGCGCTTGGGGACTTTGACCGTGCCTGCTTCGCAAGGGCATGGTGATGGTGAGCCCGGAGATGAATC
CTACCATCTGCTCGGTGTTTGAGGCAGAGATAGTCTTACTGTTCCATGCCAACACCTTCGACGAGGATTCCAGG
TGACAGTACACGTGGGCAACGTACGTACAGCGGCAGTGGTGGAAAAGATCCATGCCAAGGACAAACTGCGGACAG
GCGAAAAGGCAGTGGTACGTTTCCGCTTCTGAAACACCCAGAGTACCTGAAGGTGGGCGCCAAACTGCTGTTCC
GGGAGGGTGTACCAAGGGCATCGGCCATGTCACTGATGTACAAGCCATTACAGCAGGAGAAGCCCAGGCCAACA
TGGGCTTCTGAACCTTCAGGCAGGGACAGTTCTATTGCTGTCCCTACAATATATAAGGTGACTTCTGGCCATGC
TGCCCTGCCATTGGCGGCTCTGTGTGTTAATAGGCTAGGGAGAGAGGGGTGCTGTCTGCCACTTGCTCCCTGCCA
ACTTTCTGGAGAGGTGCCAAACTTGGTGTGGCCAGGAAAGGGCAGTCTGAGGGAGAAGACAGGATTACAGGGCAG
TGCTCCGAAGCTGTGTGCTCACCTGGTTGGCTCATCAAACCTGGCAACCCTGTGGCCTGTCTGCCGGAGCTGACT
GGATCCACTCATCAATTCTTCGTCCCCACTACTAAGACTGGGCATGTTTTGCTGGTGTGGTCTCTGCACCTCAGG
AATGGTCACAACAGGGGGTAGCCCTCAAAGCACTCCTTTTTCTATACCTCTTCTCAAGGCCATGTAAGTTGCC
ATCTCTACCTGGCTGTGGACAAAAGGTTATCTGCTCTTGGCCATCTGGTGGTGGTGGCGGCCAGAGTCTGAAGA
AATGGCACAGGGACAGTGAATGGTAGTGTGGCCACCCTGTGCTGAGGCCTGAGGCCTCTTCCTCAGCTTTATCTC
CCTTTCCCTTCACTCAAGGGCCATTTCCTCAGTCCCTATCTCCCCCATCCCCCTCCCGGCTTATAGGCCCCACAGGT
GCTATTTGTTGTGCTGGCCAGGCGTGGGGCTACCAAGCAAAGGCTTGGCATATACCAAAGGCCAGCTGCATGCC
CATCAGTCTGGTCTTTTTCTCTGCGGTGATGTTGGCTTTTATGCTGGATCAAATGTTTTACTTTCCAGACTGG
TGGCATCTGAGTTCCCCATCTACCCTCTCACCCCACTTTCTGCCCCACCTAAACCCTCGTTTTAGTAATTTGT
AGTGACTGTTCCCTTCCCTCTGTTGCAGGGAACCAGGAGGAAAGGAAAGATGTTGCCATATTTCTACTCTTTA
GGCATGGACTCTCCTTTCCCTTTGTTAGTGTCTGGGTTCCCATGGACTCAGGGATTTGTTGGCTAAGGTTTCTC
TGTGCATATATATATATATACATATGTATATATATTTAAATACACATATATATTGTACAGAATAAAAATGTTTTA
TTG

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FIGURE 1396

MKWRLQEGRGEAVYQIGVEDNGLLVGLAEEEMRASLKTILHRMAEKVGADITVLREREVDYDSMPRKITEVLVRK
VPDNQQFLDLRVAVLGNVDSGKSTLLGVLTQGEIDNGRGRARLNLFRLHEIQSGRTSSISFEILGFNSKEEVVN
YSDSRTAEEICESSSKMITFIDLAGHHKYLHTTIFGLTSYCPDCALLVSANTGIAGTTREHLGLALALKVPFFI
VSKIDLCAKTTVERTVRQLERVLKQPGCHKVPMLVTSEDDAVTAAQQFAQSPNVTPIFTLSSVSGESLDLLKVF
LNILPPLTNSKEQEELMQQLTEFQVDEIYTVPEVGTVVGGTLSSGICREGDQLVVGPTDDGCFLELRVCSIQNR
SACRVLRAGQAATLALGDFDRALLRKGMVMVSPENPTICSVFEAEIVLLFHATTFRRGFQVTVHVGNVQRQTAVV
EKIHAKDKLRTGEKAVVRFRFLKHPEYLVKGAKLLFREGVTKGIGHVTDVQAITAGEAQANMGF

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FIGURE 1397

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGCTCA
GCGCCTTCACTTTGGAACTGACTCAGAGACCTAAAGAAGCCACCTGGCCAGCGGGAAGGGGGGCGCCGCCGCC
TCCCGGTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCTTGCAGGCCGGCGCTGCTTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTGCTTCAAAGAGAGGAGAGGCAGCAGCATGGCGAGTGTCTGTCCCAGCGCCTTGGAAGCGGTCC
CTCTGGGAGCCCGGGTGTGGGACCCAGTGCCTCGGAGGGGCCCTCGGCTGCCCCACCCTCGGAGCCACTGCTA
GAAGGGGCGCTCCCCAGCCTTTACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG
GCTCCAGCACCTCGGGCCTTCAGCAGGTGGCCTTTAGCCTGGGCAGAAAGGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG
CAGGTCTGCTGCAGGGTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCGTGCCCAAGAGGAAGTCGGACGCAGTG
CCCGGAGCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCTCCCGGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGCGGCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCACCCTCAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCCTGACCCTTTCCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCCTGTGGCCAAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGACAGCACCCAGTCCCTGGGACTCCCACCTCCGAGCCAGTCCCACCCCCAGCATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCAGTCTCCGGCCCCAGAACATCCTGGCCCCGAGTCTCCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTCAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCCAGTCTCACCACACATCTACACCAGTGTGAGCTGGGCTGCTGCCCCCTCCGCCGCTGC
TCTCTCTCTCCGGTCCGGAGCCGGTCTGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACAGTGGTGCACGGCGTGCCGGTGGAAAGAGGCCTGCCAGCGCTTTCTGGAC
TGAGCTGTGCTGCAGGTTCTACTCTGTTCTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTACCAGC
CCTCAGCAGAAACCGAAAGAGAAAGAACGGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCCATTTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 1398

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPOFFTTSDDTPCQEQPKEVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGFCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDA VEMDEMMAAMVLTSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHPQASPKYLGDAFGSPQTDHGFETDPPDFLLDEPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH
VKALHLGDTVDSQDFKREEDFYYTEVQLKEESAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESLPSGALSAPSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRF LD

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FIGURE 1399

GGATGAAAGTGATTTAATTCATTTTTAGAAATTTTTTTTTTGTGTTTGTGTTTAGCAACATGCTGAACAACATAATTTA
CTTTAAAAATAAGCCAGTTAAAACAAAGGACGCTAAGCCCAAGTGGGGGGCAATATTAGTCAGGATCTTTGGGGT
CTAATTCAGACCAACTTTTCAGAAGCACTTCTTTGTCTCTGTTCTCACCTCTGCTGTCCCTCTCTTCCCTCATCC
CCTAAGAGAGACAAAGATAAAAGCCACCTGCATCCCTAAGTCTTACTGAGATCAGCCACCCAGGGGAGAGAAA
CTGGATCTACTTACAGCCACCCCTGTTTCCATCCATATACTTACTTCCCCCAATTTGCATGTGATTATGGAAC
AAGTCATGCTCATGAAAGCAACTGTAAATAAAAGGTTATGGAGTAGTTCAGCAACTTCTTCACAGCCAGCTTTG
TGGAGCTGGGGAGGACTTAGGGCCCATTTGGAGTCTCTTATGTGTACAGCTTCAGGGCTGTCCCTTTCAGTTTGAT
TTTAAGCAATGCCTCACTTCATAGCTTAGGGGGTAAGGATTCCATTACAGGTAGGTTGTCTAAAGGAACATAATGGG
ACCTCTCAGTGAAATTAGCTGACCAGATTTTAGGAAATCTTTTTAATTTCTATGATTTTCTTCTCACATTTTGAA
ATGGTAAATTTGACTGGAAATAATTTTTCTTGGTGCCATTATTGGTTTTCTTGCAAACCTTTCTCATATTTTCTC
ATGACCATTGCCAGTGACCAAGGCCCATGTGTGTGTTGTGTGTAATTGTGGGCATGTACAAGCTTAAATAACGTG
CCGACAGCACTGTTTCAAAGTTGGTATTCAATTAGGCTGTTGCCTCCTGGGCTGGAGCTGCGCTAATCCTGACACC
GGCTGCCAGGAGAAAACCTCATGGATCACACACCAAACCTTAATAACAGCATCCGTGACCTGCACCTCTCCAGTAC
AGAAATGGGAACCCAGAGCTAGGAAATGTAGTTGTATATTTTAATGAACCTGCTACCCAGCCAAAGAAGCTTCTT
TCATTTTGTGCTCTACAGAAAGCCCAAGGGGGTAGGAGGGACAGAGCTTTGAATAACTGCTTTCTAACACTAA
ATGTGGCCAACAGGACAGAGCACATCACACGTATAGGCAGGTGTGAGGGACAGTGGCTAAGAATTGCCTGCTCCC
TCTGCATGCTCTTTCTTGTGTTTCCAAAGTCCAATCAAGTGATCCTGGGAAACAAATCTGTCTGGATTGCGGAGGGT
GGTTCTGAAAGAACTGCCAAGACGTTAAAGAAGGGTGAAGAGTAGGCAGAAATATAAGTAGCTAACCTGAGTCAAG
ACTCTAAAAGCTAGCAGCCTGATGACAATAGGATTTATTTACGCCAGGATAGTGTCTGTCTGTGAGTGCATCAT
TTTAAGACAGTATGACTTCATGTTGTTACAACTATGTATAGTATGTATGTTTTGTGGGTTGTATATATACATAA
TATATATTATATATATATATATGAGAGATTTGGTGACTTTTGATACGGGTTTGGTGCAGGTGAATTTATTACTGAGC
CAAATGAGGCACATACCGAGTCAGTAGTTGAAGTCCAGGGCATTGATACTGTTTATGATTTCCATATATGTATA
GTGCCTATCCCATGCTGTAGTCACTGTTATGTTAAATCCAGAAGTTACACTAGAGCCAGCGATACTTTATTTGTA
GACAATCAATTTGAATCCATATGTTATTACTGGCAGATGATACATGATTACAGTTCTGAATCTGTAACACTTACA
AAAGGAAACCCAGAGCAGCTTGATGAGTTTTTGTGTTCTGCTTCGTTCTTGGGAGTCAGTAGAAACAGCAGTTGTA
TGTGGTTATGTTAGTCTCAAGATACTTAATTTGTTGACCTTACTTCAGAAAAATTTGTATGTATTATATTTGTG
GGAAGGTAAAATAATCATTTGAGATTTTTATCAAATATGAAGATTAGTTATTTATGAAAAACAAAGAAATGTCTA
TTTTTCTTGTGCCCAATTAATGTAGATAAATTTTAAATGCATTAAAGTAATGGTCCGGAACAAAAA

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FIGURE 1400

METSHAHESNCKIKGYGVVQQLHSQLCGAGEDLGPIGVSYVYSFRAVPFSLILSNASLHSLGGKDSIQVGCLKE
LMGPLSELADQILGNLENFYDFPSHILKW

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FIGURE 1401

GCACGAGGTGTTCTATTTACATGGCCTGTGTAAATCTCCATTGGGAAGTCATGCCTTCTAAAAAGATTCTTATTT
GGGGGAGTGGGCAAAATGTTGATTATTTTCTAATGCTTTGTAGCAAAGCATATCAATTGAAAAGGGAATATCAGC
ACCTTCCTAGTTTGGGATTTGAAAAGTGGAATTAATGCAGTAGGGATAAAGTAGAAGAAACCACAAATTATCTT
GTGCCTGAAATCCATTAAGAGGCCTGATAGCTTTAAGAATTAGGGTGGGTTGTCTGTCTGGAAGTGTTAAGTGGA
ATGGGCTTTGTCTCCAGGAGGTGGGGGAATGTGGTAACATTGAATACAGTTGAATAAAAATCGCTTACAAAACCTC
ACACTCTCACAAATGCATTGTTAAGTATGTAAAAGCAATAACATTGATTCTCTGTTGTACTTTTTTGTAACTAATT
CTGTGAGAGTTGAGCTCATTTTCTAGTTGGAAGAATGTGATATTTGTTGTGTTGGTAGTTTACCTAATGCCCTTA
CCTAATTAGATTATGATAAATAGGTTTGTCAATTTTGCAAGTTACATGTTTTAAACATTTATCAATGAAGTCATCC
TTTAGACTTGTAATCGCCACATTGTTTCATTATTTCAGTTTCCTCTGTAAAGGGATCTTGAGTTGTTTTAATTTTT
TTTTCTGCATCTGAATCTGCATGATTTCCAAACCTGTACCATCTGAATTTTGCATTTTAGCACTTGCACATTATTA
CTCAGCAGCAGTAACATGGTAACACTTAAATGGTACTCGGGGACCTCCAAAGACTAAACTGACAAGCCTTCAAG
GAGCCCAGGGGTAAGTAACTTGTCAACGGCATGGTTTAATCCCTTCTTTACACTTGTGTAAATTTTCACTTACTG
GTCATAGAAGGCTTTCAATGTTGAGTGGCCTTTTATTAACATGTTTATGGTACTGCATAGATACGGGTATTTATT
TTACCCTAAGAAGATTTTGAAGTTTAAAAGTACTTAAACTATTTGGCAAAGATTTGTTTTTAAAAATCTATTTGG
TCAATCTAAATGCATTCATTCTAAAAAATTTTTTGAACCAGATAAATAAAATTTTTTTTTGACACCACAAAAAA
AAAAAAAAAAAAA

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FIGURE 1402

MACVNLHWEVMP SKKILIWGSGQNVDFLMLCSKAYQLKREYQHLPSLGFEKWN

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FIGURE 1403

ATGGAGGCCGCGGGACTATGCAGGAGCCCTCATCAGGCCCTGACATTTATGGGATCACAGACTAAGCGAGTC
CTGTTCACCCCGCTCATGCATCCAGCTCGCCCTTTCCGGGTCTCCAACCATGACAGGAGCAGCCGGCGTGGGGTG
ATGGCAAGCAGCCTGCAGGAGCTCATCAGCAAGACTCTGGATGCCCTCGTCATCGCTACCGGACTGGTCACTCTG
GTGCTGGAGGAAGATGGCACCGTGGTGGACACAGAAGAGTTCTTTCAGACCTTGGGAGACAACACGCATTTTCATG
ATCTTGGA⁵AAAAGGACAGAAGTGGATGCCGGGCAGCCAGCACGTCCCCACTTGCTCGCCGCCGAAGAGGTCTGGGA
ATAGCGAGAGTCACCTTCGACTTGACAGGCTGAACCCCAAGGACTTCATCGGCTGCCTTAACGTGAAGGCCACC
ATGTATGAGATGTACTCCGTGTCCTACGACATCCGGTGCACGGGACTCAAGGGCCTGCTGAGGAGTCTGCTGCGG
TTCCTGTCCTACTCCGCCCAGGTGACGGGACAGTTTCTCATCTATCTGGGCACATACATGCTCCGGGTGCTGGAT
GACAAGGAAGAGCGGCCATCCCTCCGGTCACAAGCCAAGGGCAGGTTACGTGTGGATAG

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FIGURE 1404

MEAARDYAGALIRPLTFMGSQTKRVLF TPLMHPARPF RVSNHDRSSRRGVMASSLQELISKTL DALVIATGLVTL
VLEEDGT VVDTEEFFQTLGDNTHFMILEKQKWMPSQHVP TCSPPKRSGIARVTFDLYRLNPKDFIGCLNVKAT
MYEMYSVSYDIRCTGLKGLLRSLRFLSYSAQVTGQFLIYLGTYMLRVLDDKEERPSLRSQAKGRFTCG

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FIGURE 1405

ACGAGGCTTCATTCCATTTTCTGTTGAGTAATAAACTCAACGTTGAAAATGTCCTTTGTGGGGGAGAACTCAGGA
GTGAAAATGGGCTCTGAGGACTGGGAAAAAGATGAACCCAGTGCTGCTTAGAAGACCCGGCTGGAAGCCCCCTG
GAACCAGGCCCAAGCCTCCCCACCATGAATTTTGTTCACACAAGTCCAAAGGTGAAGAACTTAAACCCGAAGAAA
TTCAGCATTGATGACCAGGATCACAAAGTACTGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAAAC
TACATACGCCCAGAGATCTTCTTTGCATTAGCCTCATCCTTGAGCTCAGCCTCTGCGGAGAAAGGAAGTCCGATT
CTCCTGGGGGTCTCTAAAGGGGAGTTTTGTCTCTACTGTGACAAGGATAAAGGACAAAGTCATCCATCCCTTCAG
CTGAAGAAGGAGAACTGATGAAGCTGGCTGCCCCAAAAGGAATCAGCACGCCGGCCCTTCATCTTTTATAGGGCT
CAGGTGGGCTCCTGGAACATGCTGGAGTCGGCGGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAAT
GAGCCTGTTGGGGTGACAGATAAATTTGAGAACAGGAAACACATTGAATTTTCATTTCAACCAGTTTGCAAAGCT
GAAATGAGCCCCAGTGAGGTCAGCGATTAGGAAACTGCCCCATTGAACGCCTTCCTCGCTAATTTGAACTAATTG
TATAAAAACACCAAACCTGCTCACTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1406

MSFVGENSEGVKMGSEDWEKDEPQCCLDPAGSPLEPGPSLPTMNFVHTSPKVKNLNPKKFSIHDQDHKVLVLD SG
NLIAPDPKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESA
RRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD

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FIGURE 1407B

TGCAAAAGAAAAACCTACCAATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1408

MDEGIPHLQERQLEHRDFIGLDYSSLYMCKPKRSMKRDDTKDTYKLPHRLIEKKRRDRINECIAQLKDLLPEHL
KLTTLGHLEKAVVLELTLKHLKALTALTEQQHQKIIALQNGERSLKSPIQSDLD AFHSGFQTCAKEVLQYLSRFE
SWTPREPRCVQLINHLHAVATQFLPTPQLLTQQVPLSKGTGAPSAAGSAAAPCLERAGQKLEPLAYCVPVIQRTQ
PSAELAAENDTDTD SGYGGEAEARPDREKKGAGASRVTIKQEPFGEDSPAPKRMKLD SRGGGSGGGPGGGAAAA
AAALLGPDPA AAAALLRPDAALLSSLVAFGGGGGAPFPQPA AAAAPFCLPFCFLSPS AAAAYVQPF LDKSGLEKY
LYPAAAAAPFPLLYPGIPAPAAAA AAAAAAAAAAAAAA AAFPCLSSVLSPPPEKAGAAAATLLPHEVAPLGAPHPQH PH
GRTHLPFAGPREPGNPESSAQEDPSQPGKEAP

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FIGURE 1409

GGTGAGTCCGCGTGTGGAAGTCTGTGAGGCGCAGAGGTGGGGCAGGCCGTCTGGCTAGCTAGGCGGCTGGGAGCG
TTTTCGTGGCGGGGAACGGAGGTTGAATTGCCCTGCCTGGGCTCATAGGGAAGGAGGATGTGAAGGAGCTTGTGA
AGGCAGAGGAAGATTATTGAATAATAAAATACAGTTTTGAAAAAATGGATGAAGAACCTGAAAGAACTAAGCGA
TGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAGAAGATGAATCTGGATCACTTAAAGCTACAATAGAA
GACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCATGGACAAGTTTCGACTTGGAAATGATGCGCCAC
CTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGATTTAAAGCCTAATAGACTGACGTGTACTTTA
AAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCTATTAGTCAGATTGGAATAATTGTAACCTAAG
AGTAAAAGAGCTGAAAAATTGACTGAACCTTCAGGAAACCAAGAAAAACATATAACGTCTTTGAAGAAAGCTGTG
GATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCCTAAGCATAGCTATGCAGACTCTAAAACACATGCCCT
GGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACAACCTTGCGATCCATCTAATATTTATGATCTA
ATCAAGACCCCTAAAGGCAGCTAAAAATTAGAGTATCTGTTATTGGATTGTCTGCAGAAGTTTCGCGTTTGCACGTGA
CTTGCTCGTGAAACTGGTGGCACGTACCATGTTATTTTAGATGAAAGCCATTACAAAGAGTTGCTCACACATCAT
GTTAGTCCTCCTCCTGCTAGCTCAAGTTCTGAATGCTCACTTATTCGTATGGGATTTCTCAGCACACCATTGCT
TCTTTATCTGACCAGGATGCAAAACCCCTCTTTCAGCATGGCGCATTTGGATGGCAATACTGAGCCAGGGCTTACA
TTAGGAGGCTATTTCTGCCCACAGTGTGCGGGCAAAGTACTGTGAGCTACCTGTTGAATGTAAAATCTGTGGTCTT
ACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTTGTTTCCTTTGGATGCTTTTCAAGAAATTCCC
CTAGAAGAATATAATGGAGAAAGATTTTGTATGGATGTCAGGGGGAATTGAAAGACCAACATGTTTATGTTTGT
GCTGTGTGCCAAAATGTTTTCTGTGTGGACTGTGATGTTTTTGTTCATGATTCTCTACACTGTTGCCCTGGCTGT
ATTCATAAGATTCCAGCTCCTTCAGGTGTTTGAATTCAGCATGTAGTATACATTGTATGTGTTAAAAAGAAATTT
GCAACTGTGAATAAAAGGACTTCTTTAGAAGAAGCTTCATTTAAAACATGAAAGGATAATCTGACTTAAGAACT
TTTTGCTAAGAAAAGGTAATATTTTATTAAATTTTAAATTTGTGTTGTCACAGAAATACCTGAAATTCAGTAGTA
CTTCATTCAATTAATTTTGTCTTATTATTTTGTAGTTATACTGTTTTCAAAGTCATTATGCAGTATGTATAAAC
TTATAAGAATTAATTTGATGTGATAATTTTATGTTTTTATAATTAATATAGAATCTTTATGATTTATGTTAATT
CATTAAATTTAGTGTAAGAAGAAAGTTAAGTCTGAATGTAAATTCAGTGTAAGATGAAAATTTATCAATACTTATG
GAAATTAGGCTGGGCGCTGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGATCACTTGA
GGTCAGGAGTTCGAGACCAGCCGGGCCAGCATGGTGGAACCCCGTTCACTACTAAAAATACAAGGATTATTAGC
CGGGCCTGGT

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FIGURE 1410

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVFEEHGGQVRLGMMRHLYVVVDGSRTMEDQD
LKP NRLTCTLKLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTESGNPRKHITSLKKAVIDMTCHGEPSLYNSLS
IAMQTLKHMPGHTSREVLIIFFSLTTCDP SNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDE
SHYKELLTHHVSPPPASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRKYCE
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVYVCAVCQNVFCVDCDVFV
HDSLHCCPGCIHKIPAPSGV

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FIGURE 1411A

GGGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTGGATCTCCTGACCTCGTGATCCACCCACCTCGGCC
TCCTAAAGTGCTGGGATTACAGACATGAGCCACCGCGCCAGCCCTATTCATCCCTTTTCAAAAGTCAGACCCTA
GGAAGCTGGAGGGAGGTGGGGCATGGTTTTACAGTGAATTTCTGATTTCACTCAGGGTGATAAATCAGACTCTTG
GGGAAGCGGGTGGTGGCTCTGGACAGCAGCAGGAATGGGGATCCAGTTAGCAACAAATCCATGGACCTATGACAG
GCTGAAAGCCACCCCTTCTCCATCTTTGGGAGGTTGCCAATGTCTGATTTAACACTATCCAATGAATGATCATTG
AAAGTAAAAAATAACTATCAACTAGCAGAAAATATAAATGGTAAGCATTAGCACATATTTACATGTTTATATTT
GGCTCTCAGATTGACCTATAAAACAAAGTCTGGGAAATTTCTATATGATCCTGAAAAAATGATACGCTGGTCTGGA
TGGTAGAATAAGTTGGAGAAATGTTTAAGCCAAATGCAGTCTTACCAATGACTTTTTATTTTATTTTATTAATT
TTCAGGATTTTTTGGTATACAGGTGGTTTTTGGTTACATGGAAAAGTTCTTTACTGGTGATTTCTGAGATTTTAGT
TCACCCCTTATCCTGAGCAGTGTACACTGTTCCCAATATGTAGCCTTTTATCCCTCACCCCTCTAAGTTCAAGA
AGACTATGGTCCTGCAGAAAGCTTTATATGTAATTAACATATCTTTATCTTTATCTTTATAGGCAGTAGACTCAT
CTTTTGAAACAGATTCCATTAAGAGTGAATGTGTACCCTCCCTCTAGCCTTTATTATTACTGTTTTTGCTATTAC
ATGTGTTAGTGTATGTGAATTTAATGCTTAAAAATGTATCCATTGGCTACTATGGCAAAAGGTTGACTCATAAG
AGTTTAGCACGGGTTAAGATCTGAAAGTTTTCTCCAGCCTCTTATCACTGGCGCAGACTTCACAATTCATGGAA
GCCACCAGTGAGATGACATTGCCTCAGGCAGTTACTATTTTTATATTCTATAACTCGAGGAGCTCAGGGTTTCGG
AAATCATTAACTTTTTTTGTCCTTTTAAAGTTGGAGACAGCAATTGTAGACAGCCTTCCAGTGGGTTATCTTTT
TGTGCTCCTTACCTGTGGAGAAGCCTATTAGCTGGGATATGTAGTTAAATAGCTATATTTATATATATCCAGGG
CACCCCGAATTCGGGAGAGCTTCCCGGAGTCGACCTTCTGCTGGCTGCTCTGTGACCGCTTCCCGGCTCTGCCC
TCTTGGCCGAAGTGCCGCTGCCGGCGCGGGCCTCAGACAATACAATGGTGGGTGAAGAGAAGATGTCTCTAAG
AAACCGGCTGTCAAAGTCCAGGGAATCCTGAGGAAGATGAAGACCAGAGAAACCTGCAAAGGAGTCCCTAGA
GACACCTAGTAATGGTCGAATTGACATAAAACAGTTGATAGCAAAGAAGATAAAGTTGACAGCAGAGGCAGAGGA
ATTGAAGCCATTTTTTATGAAGGAAGTTGGCAGTCACTTTGATGATTTTGTGACCAATCTCATTGAAAAGTCAGC
ATCATTAGATAATGGTGGGTGCGCTCTCACAACCTTTTCTGTTCTTGAAGGAGAGAAAAACAACCATAGAGCGAA
GGATTTGAGAGCACCTCCAGAACAAGGAAGATTTTTATTGCAAGGCGCTCTCTCTTAGATGAACTGCTTGAAGT
GGACCACATCAGAACAAATATATCACATGTTTATTGCCCTCCTCATTCTCTTTATCCTCAGCACACTTGTAGTAGA
TTACATTGATGAAGGAAGGCTGGTGCTTGAGTTCAGCCTCCTGTCTTATGCTTTTTGGCAAATTTCCCTACCGTTGT
TTGGACCTGGTGGATCATGTTCCCTGTCTACATTTTTCAGTTCCCTATTTTCTGTTTCAACATTGGGCCACTGGCTA
TAGCAAGAGTTCTCATCCGCTGATCCGTTCTCTCTTCCATGGCTTTCTTTTTCATGATCTTCCAGATTGGAGTTCT
AGGTTTTTGGACCAACATATGTTGTGTTAGCATATACACTGCCACCAGCTTCCCGGTTTCATATTATATTCGAGCA
GATTCGTTTTTGTAATGAAGGCCCACTCATTGTGTCAGAGAGAACGTGCCTCGGGTACTAAATTCAGCTAAGGAGAA
ATCAAGCACTGTTCCAATACCTACAGTCAACCAGTATTTGTACTTCTTATTTGCTCCTACCCTTATCTACCGTGA
CAGCTATCCCAGGAATCCCACTGTAAGATGGGGTATGTGCTATGAAGTTTGCACAGGTCTTTGGTTGCTTTTT
CTATGTGTACTACATCTTTGAAAGGCTTTGTGCCCCCTTGTTTCGGAATATCAAACAGGAGCCCTTCAGCGCTCG
TGTTCTGGTCTATGTGATTTAACTCCATCTTGCCAGGTGTGCTGATTCTCTTCTTACTTTTTTGCCTTTTT
GCACTGCTGGCTCAATGCCCTTGCTGAGATGTTACGCTTTGGTGACAGGATGTTCTATAAGGATTGGTGGAATC
CACGTCACTACTCCAACATATATAGAACCCTGGAATGTGGTGGTCCATGACTGGCTATATTACTATGCTTACAAGGA
CTTTCTCTGGTTTTTCTCCAAGAGATTCAAATCTGCTGCCATGTTAGCTGTCTTTGCTGTATCTGCTGTAGTACA
CGAATATGCCCTTGGCTGTTTGCTTGAGCTTTTTCTATCCCGTGTCTTCTGCTCTTTCATGTTCTTTGGAATGGC
TTTCAACTTCATTGTCAATGATAGTCGGAAGGCGGATTTGGAATGTTCTGATGTGGACTTCTCTTTTCTTGGG
CAATGGAGTCTTACTCTGCTTTTATTCTCAAGAAATGGTATGCACGTGGCACTGTCTCTGAAAAATCCACATT
TTTGGATTATGTCCGGCCACGTTCCCTGGACTTGTGCTTACGTGTTTTAGAAAGCTTGGACTTTGTTTCTCTCTGT
CACTGAAGATTGGGTAGCTCCCTGATTTGGAGCCAGCTGTTTCCAGTTGTTACTGAAGTTATCTGTGTTATTTGG
ACCACTCCAGGCTTTACAGATGACTCACTCCATTCTAGGTCACCTGAAGCCAAACTGTTGGAAGTTCACTGGAG
TCTTGTACACTTAAGCAGAGCAGAACTTTTTTGTGGGGCTGGGTGGGGGAGAAAGACCGACTAACAGCTGAAGT
AATGACAGATTGTTGCTGGGTCATATCAGCTTTATCCCTTGGTAATTATATCTGTTTTGTTTCTTGACTCTGTCC
AATCAGAGAATAAACATCATAGTTTCTTGGCCACTGAATTAGCCAAAACACTTAGGAAGAAATCACTTAAATACC
TCTGGCTTAGAAATTTTTTCATGCACACTGTTGGAATGTATGCTAATTGAACATGCAATTGGGGGAAGAAAAATG
TAGAATGATTTTTGCTATTTCTAGTAGAAAGAAATGTCTGTTTTCCAAAGATAATGTTATACATCCTATTTTGT

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FIGURE 1411B

AATTTTTTTGAAAAAAGTTCAATGTTTCAGTTTTTCCTTAGTTTTTACCTTGTTTTCTCTATAGGTCATGATTTCTG
TGAAGCAAAAAGATGCCTTTTACCATGAATTCTTGAGTTTACATCAATAATATTGTATATTAAGGGGATCAGAAG
TAGGAAGGAAAAAATAAGAGATAGCAGAGGAAAAAGAAAAACATTTCTCTTATAACTTCTGAAGTAATTTGTAA
AAAAGATTTGTAGAGTCAATCATGTGTTTTAAATTATTTTATCACAACTTAACATGGAAGATATTCCTTTTAAAC
TTTGTGGTAACTTCCTTTGAAGTTATTTAGAAATATCCTTTGGAACAATTATTTTATTGTCTAATAAAIATTGACT
TCTCTTGAATTATTTTGCAGACTAGTGAGTCTGTAC

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FIGURE 1412

MVGEEKMSLRNRLSKSRENPEEDEDQRNPAKESLETSPNGRIDIKQLIAKKIKLTAEAEELKPFFMKEVGSHFDD
FVTNLIKESASLDNGGCALTTFVLEGEKNNHRAKDLRAPPEQGKIFIARRSLLDELLEVDHIRTIIYHMFIALLI
LFILSTLVVDYIDEGRLVLEFSLLSYAFGKFPTVVWTTWIMFLSTFSVPYFLFQHWATGYSKSSHPLIRSLFHGF
LFMIFQIGVLGFGPTYVVLAYTLPPASRFIIIFEQIRFVMKAHSFVRENVPRVLNSAKEKSSTVPIPTVNQYLYF
LFAPTLYRDSYPRNPTVRWGYVAMKFAQVFGCFFYVYIIFERLCAPLFRNIKQEPFSARVLVLCVNSILPGVL
ILFLTFFAFLHCWLNFAEMLRFGDRMFYKDWWNSTSYSNYYRTWNVVVDWLYYYAYKDFLWFFSKRFSKAAML
AVFAVSADVHEYALAVCLSFFYPVLFVLFMFFGMAFNFI VNSRKKP IWNVLMWTSFLGNGVLLCFYSQEWYAR
RHCPLKNPTFLDYVRPRSWTCRYVF

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FIGURE 1413

GCAGTAGAGGCGCGGGGTGCGGAGCTAGGGAGGCCGAGAGCCATGGCGGCGCTATTGGCGGCGGCGGCAGTGCGA
GCCCCGATCCTGCAGGTTTCTTCCAAGGTGAAATCCAGTCCCACCTGGTATTTCAGCATCTTCCTTCTCTTCTTCA
GTGCCAACTGTAAAGCTCTTCATTGGTGGGAAATTCGTTGAATCCAAAAGTGACAAATGGATCGATATCCACAAC
CCAGCCACCAATGAGGTTCATTGGTCGGGTCCCTCAGGCCACCAAGGCAGAAATGGATGCAGCCATTGCTTCCTGC
AAACGTGCTTTTCTGCAATGGGCAGACACTTCAGTATTAAGCCGCCAGCAGGTCTTGCTCCGCTATCAACAACCTT
ATTAAAGAAAACCTTGAAAAGAAATTGCCAAGTTAATCACATTGGAACAAGGGAAGACCCTAGCTGATGCTGAAGGA
GATGTATTTTCGAGGCCTTCAGGTGGTTGAGCATGCCTGTAGTGTGACATCCCTCATGATGGGAGAGACCATGCCA
TCCATCACCAAAGACATGGACCTTTATTCTACCGTCTGCCTCTGGGAGTGTGTGCAGGCATTGCTCCATTCAAT
TTTCTGCCATGATCCCCCTTTGGATGTTTCCCATGGCCATGGTGTGTGGAAATACCTTCCCTAATGAAACCATCT
GAGCGAGTCCCTGGAGCAACTATGCTTCTTGCTAAGTTGCTCCAGGATTCTGGTGCCCTGATGGAACATTAAAC
ATCATCCATGGACAGCATGAAGCTGTAAATTTTATTTGCGATCATCCGGACATCAAAGCAATCAGCTTTGTGGGA
TCCAACAAGGCAGGAGAGTATATCTTCGAGAGAGGATCAAGACATGGCAAGAGGGTTCAAGCCAATATGGGAGCC
AAGAACCATGGGGTAGTCATGCCAGATGCCAATAAGGAAAATACCCTGAACCAGCTGGTTGGGGCAGCATTGGA
GCTGCTGGTCAGCGCTGCATGGCTCTTTCAACAGCAGTCCTTGTGGGAGAAGCCAAGAAGTGGCTGCCAGAGCTG
GTGGAGCATGCCAAAAACCTGAGAGTCAATGCAGGAGATCAGCCTGGAGCTGATCTTGGCCCTCTGATCACTCCC
CAGGCCAAAGAGCGAGTCTGTAATCTGATTGATAGTGAACAAAGGAGGGAGCTTCCATCCTTCTTGATGGACGA
AAAATTAAAGTGAAAGGCTATGAAAATGGCAACTTTGTTGGACCAACCATCATCTCGAATGTCAAGCCAAATATG
ACCTGTTACAAAGAGGAGATTTTTGGTCCAGTTCTTGTGGTTCTGGAGACAGAAACATTGGATGAAGCCATCCAG
ATTGTAAATAACAACCCATATGGAATGGAAGTCCATCTTACCACCAATGGAGCCACTGCTCGGAAATATGCC
CACTTGGTGGATGTTGGACAGGTGGGAGTGAATGTCCCCATTCCAGTGCCTTTGCCAATGTTCTCATTACCGGC
TCTCGATCCTCCTTCAGGGGAGACACCAATTTCTATGGCAAACAGGGCATCCAATTCTACACTCAGTTAAAGACC
ATTACTTCTCAGTGGAAGAAGAAGATGCTACTCTTCTCACCTGCTGTTGTCATGCCTACCATGGGCCGTTAG

AAACAAGTTTGTTTAAGACTGACTCCATCCTGAGTAATCTCCCTTTATTTTTGACCAGCTTCATTTGTCAGCTTT
GCTCAGATCAGATCGATGGGATTGGAATACATTGTAACATAAAATCTTAAAAAAA

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FIGURE 1414

MAALLAAAVRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKFVESKSDKWIDIHNPATNEVIGRVPQAT
KAEMDAAIASCKRAFFAWADTSVLSRQQVLLRYQOLIKENLKEIAKLITLLEQGKTLADAEGDVFRGLQVVEHACS
VTSIMMGETMPSITKDMDLYSYRLPLGVCAGIAPFNFPAMIPLWMFPMAMVCGNTFLMKPSEVPATMMLLAKLL
QDSGAPDGTINI IHGQHEAVNFICDHPDIKAI SFVGSNKAGEYIFERGSRHGKRVQANMGAKNHGVVMPDANKEN
TLNQLVGAAFGAAGQRCMALSTAVLVGEAKKWLPELVEHAKNLRVNAGDQPGADLGPLITPQAKERVCNLIDSGT
KEGASILLDGRKIKVKGYENGNFVGPTIISNVKPNMTCYKEEIFGPVLVVLETETLDEAIQIVNNNPYGNGTAF
TTNGATARKYAHLDVGQVGVNVPFIPVPLPMFSFTGSRSSFRGDTNFYKGQGIQFYTLKTTITSQWKEEDATLSS
PAVVMPTMGR

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FIGURE 1415

GGATGCTCAATATATATTGATTTAATCGGGTTATGTAGGGTGTTAATATAAAATTAGCATTTATTCAGCTACTAC
TATGAGTCTAGCCACTGGGCTATAGTGGCTTACATGTTATAGTACCACCGCACCTGGCCCTGGTAGTGATATTTA
ATCCAATCCAACAACCTATAGGCTGGGTAAATAAAAGGTCATTATTGTCTATATTCCAAGTGGAAATTAAATGTAG
TCACAGAGATTCCCTAACATTTTCCTTATATTTAAGGGAAATCACTTCTAAAAAACACACTAATCAGAACTGTGA
TGCTCTAATTAGAAACAACCTCATCTGGCCAACCTATTTGCTGCTCAGAGTTTCTTATTTCTTAGATGAAAAAACT
CATCAGTTATATTCATGTGATCGCGGCTAAAAAGTCAGTATTTTCTTTTTGTTCTAATGTGGCTTCATTTGAAAT
TTCTCAGATTCTACATTGTACTAATTATGAATAACAAATTATAAATTAAAACTCTTAAAGAGAAAACTTGGCT
TAAAAAATCATTTTATATCTCCTTATAAGCCTTTGTCCTCTAGGTTGTAATGACTCTGACTTCCCACCTGTGAT
GGAAAGCTAAGAGTCACAAGGTCACCTATGTTTACTCTTACGTAAAAGATAGTACACATTTTGGCTAGGCTGTTTA
CTTCAAAGGCAACCTATAGGTTTCTACACAAAAAGAGGCACACATTTGCATTTGCATTAGTATAATATGCATTT
GTACGGATATTGCTTTAAAAATTTATGTAATCTACTAATGCTATTTATTACTCATTCCACTGATCCCTGAAGTCT
CTCAACTAGTAGAGAAAATAACCGTGATTTAGCAAGAAGCGACATGGGGAAGGGTGACAACAATATACATTGTTT
GATTAGATACAG

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FIGURE 1416

MGKGDNNIHCLIRY

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FIGURE 1417

GAGCCCATGAAAAC TGACAGTGCTGAAAGTGAAGACTGAGATTCAGGAGCTGAGGTGCCCCTGTGATCCAGGTCT
TCCACCCTGAAACCCCATCCTCCATCAAGGTCCTGCCTGTAGAGTCTACCTTGCAAAGCCTCCTGCTCCTACCCA
TGCTTACAGGCCAGGAACCAGAGCCCATCATCTCAGAGGCCCTGGATGTCCTTCGAAGGAACCAGGACCCTCAGA
GCCCAGCATCCATCTCTGTCATCATCTTCATCACACCCAAAGAAGAGCCAGCCTTGCCAGGAGGGTTTACATCTCC
AGGAAGATGGGCTGCCAGCAACTGCAGAGGATGCAGCCACCTGCTTAACTGTGCTGTCCAGCCAGCCAGCCAGCT
GCAGGGCCTCTTGCTGCTTAAGAGCTGATGGGCCGGGCATGTTTGGCTCACACCTTGTGAGCACAGTATGGGAAA
TGGGAGCACAGTACTGGGAAATGGGAGCACAGTACTGGGAAATGGGAGCTCACAGTACTGGAAAATGGGAGCACA
GTACTGGGAAATGGGAGTACACTACTGGGAAATGGGAGCACAGTACTGGGAAATGGGAGCACAGTACTGGGAAAT
GGGAGTACAGTACTGAGAAATGGGAGCACAGTACTGGGAAATGGGATACAGTACTGGGAAATGGGAGCCCACAGT
ACTGGGAAATGGGAGTCACAGTACTCGGAAATGGGAGTTCAAGTACTGGGAAATGGGAGCACAGTACTGGGAAAT
GGGAGCATAGTACTGGGAAACCCAGACCTGGATTCTGAGTTTTTCAGCCTAGCCCAGACTTCTTATCTTAGTAG
ACAAAAAGAGTCAATACCAGAGAACCAGAGGCATCCTCTGTATTTAATGAACTCTGCATTTTAAATCTGTTTAGT
AGTCATTTTTTAAAGATAATCAGTTTTCCAAATATATCTATAAGTTACTACGTGAAAAAAAAAAAAA

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FIGURE 1418

MLQARNQSPSSQRPLDVLRNQPQSPASISVIFIITPKEEPALQEGHLQEDGLPATAEDAATCLTVLSSQPAS
CRASCCLRADGPGMFGSHLVSTVWEMGAQYWEMGAQYWEMGAHSTGKWEHSTGKWEYTTGKWEHSTGKWEHSTGK
WEYSTEKWEHSTGKWDTVLGNGSPQYWEMGVTVLGNGSSSTGKWEHSTGKWEHSTGKPKQTWILSFSA

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FIGURE 1419

GAGGGCGCGATCCTGGCGTCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGCTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCGCCCCGAGCCGACTTCCTCCTGGTCGGCGGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCCATCGGGGCGCGCGCGCAGGCCATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTCGGTGCCGCTGCGCGAGGGCTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGGACCTCACCGACAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACCGCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACTTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACGGATGAGCAG
TACCAGGCAGTGCGGGCCGAGCCCACCAACCCAAGCAAGATGCGGAAGCTCTTCAGTTTCACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCTGGCAATCCCACCAAATCATCCTGAATCTGATCTTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAAAAA

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FIGURE 1420

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVR
AEPTNPSKMRKLFSTPAWNWTCKDLLLQALRESQSYLVEDLERS

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FIGURE 1421

AGCGCCGCTGAATTCTAGGCAGAAAGAAAAGAGCTCCCAAATGCTATATCTATCAGGGGCTCTCAAGAACAATGG
AATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAAAGCAATACCA
GGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTCCTTGGCGCCTCATTGCTGTAATTTTGGGAA
TCCTATGCTTGGTAATACTGGIGATAGCTGTGGTCTGGGTACCATGGGGGTCTTTCCAGCCCTTGTCCTCCTA
ATTGGATTATATATGAGAAGAGCTGTTATCTATTACAGCATGTCACTAAATTCCTGGGATGGAAGTAAAAGACAAT
GCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAATTGGGATTTATAGTAAAACAAGTGTCTT
CCCAACCTGATAATTCAATTTGGATAGGCCTTTCTCGGCCCCAGACTGAGGTACCATGGCTCTGGGAGGATGGAT
CAACATTCTCTTCTAACTTATTTTCAGATCAGAACCACAGCTACCCAAGAAAACCCATCTCCAAATTGTGTATGGA
TTCACGTGTGAGTCATTTATGACCAACTGTGTAGTGTGCCCTCATATAGTATTTGTGAGAAGAAGTTTTCAATGT
AAGAGGAAGGGTGGAGAAGGAGAGAGAAATATGTGAGGTAGTAAGGAGGACAGAAAACAGAACAGAAAAGAGTAA
CAGCTGAGGTCAAGATAAATGCAGAAAATGTTTAGAGAGCTTGGCCAACTGTAATCTTAACCAAGAAATTGAAGG
GAGAGGCTGTGATTTCTGTATTTGTGACCTACAGGTAGGCTAGTATTATTTTTCTAGTTAGTAGATCCCTAGAC
ATGGAATCAGGGCAGCCAAGCTTGAGTTTTATTTTTATTTATTTATTTTTTTGAGATAGGGTCTCACTTTGTT
ACCCAGGCTGGAGTGCAGTGGCACAATCTCGACTCACTGCAGCTATCTCTCGCCTCAGCCCCCTCAAGTAGCTGGG
ACTACAGGTGCATGCCACCATGCCAGGCTAATTTTTGGTGTTTTTGTAGAGACTGGGTTTTGCCATGTTGACCA
AGCTGGTCTCTAACTCCTGGGCTTAAGTGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGATGTGAG
CCACCACACCTGGCCCCAAGCTTGAATTTTCATTCTGCCATTGACTTGGCATTACCTTGGGTAAGCCATAAGCG
AATCTTAATTTCTGGCTCTATCAGAGTTGTTTCATGCTCAACAATGCCATTGGAGTGCACGGTGTGTTGCCACGA
TTTGACCCCTCAACTTCTAGCAGTATATCAGTTATGAACTGAGGGTGAAATATATTTCTGAATAGCTAAATGAAGA
AATGGGAAAAAATCTTCACCACAGTCAGAGCAATTTTATTATTTTCATCAGTATGATCATAATTATGATTATCAT
CTTAGTAAAAAGCAGGAACCTCTACTTTTTCTTTATCAATTAAATAGCTCAGAGAGTACATCTGCCATATCTCTA
ATAGAATCTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAACGGCAGC
ATCTCGGCTCACCGCAACCTCCGCCCCCTGGGTTCAAGCAATTCCTCGCCTCAGCCTCCCAAGTAGCTGGGATT
ACAGTCAGGCACCACCACACCCGGCTAATTTTGTATTTTTTTAGTAGAGACAGGGTTTTCTCCATGTGCGTTCAGGG
TAGTCCCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCTCCCAAGTGCTGGGATTACAGGCGTGAGCCAC
TGCACCCAGCCTAGAATCTTGATAATAATGTAATTGTAGGGAACTGCTCTCATAGGAAAGTTTTCTGCTTTTTTA
AATACAAAAATACCATAAAAAATACATAAAATCTGATGATGAATATAAAAAAGTAACCAACCTCATTGGAACAAGTA
TTAACATTTTGGAAATATGTTTTATTAGTTTTGTGATGTACTGTTTTACAATTTTTTACCATTTTTTCCAGTAATT
ACCTGTAAAATGGTATTATTGGAATGAACTATATTTCTCATGTGCTGATTTGTCTTATTTTTTTCATACTTTC
CCACTGGTGCTATTTTTATTTCCAATGGATATTTCTGTATTACTAGGGAGGCATTTACAGTCCTCTAATGTTGAT
TAATATGTGAAAAGAAATTGTACCAATTTTACTAAATTATGCAGTTTAAAATGGATGATTTTATGTTATGTGGAT
TTCATTTCAATAAAAAAAAACCTCTTATTA

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FIGURE 1422

MEYHPDLENLDEDGYTQLHFDSQSNTRIAVVSEKGSAAASPPWRLIAVILGILCLVILVIAVVLGTMGVLSSPCP
PNWIIYEKSCYLFMSLSNSWDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRPQTEVPWLWED
GSTFSSNLFQIRTTATQENPSPNCVWIHVSVIYDQLCSVPSYSICEKKFSM

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FIGURE 1423

GACTCCCAAGCTTGTTTTCCAATCAGTGTXAAGCTGTTTGAAACTCTCCTGTGTCTGTGTTTTGTTGTGCGTGT
GTGTGAGAGCACATCAGTGTGTGCAGGCTGTGTTTCCCCATTTCTCTCCTCCCTTCAGACCCATCATTGAGAACA
AATGTAAGAAATCCCTTCCCACXACCCTCCCTGCCTCCCAGGCCCTCTGCGGGGGAAACAAGATCACCCAGCATC
CTTCCCCACCCAGCTGTGTATTTATATAGATGGAAATATACTTTATATTTTGTATCATCGTGCCTATAGCCGCT
GCCACCGTGTATAAATCCTGGTGTCTGCTCCTTATCCTGGACATGAATGTATTGTACACTGACGCGTCCCCACTC
CTGTACAGCTGCTTTGTTTCTTTGCAA

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FIGURE 1424

GTCTCGCCCTCTTGCACTCTGCAGCTTCTCCTGTTCATCGGAAATGCCAGGCCAAGGTGGCTGCCCCCTGCGTTCC
TCCATCCAACCATGAGCTGGTGCCCATCACCCTGAGAATGCACCAAAGAATGTAGTGGACAAGGGAGAAGGAGG
CTCCCGGGGTGGAAACACACGGAAAAGCCTCGAGGACAACGGCTCCACCAGGGTCACCCCGAGTGTCCAGCCCCA
CCTCCAGCCCATCAGAAACATGAGTGTGAGCCGGACCATGGAGGACAGCTGTGAGCTGGACCTGGTGTACGTAC
AGAGAGGATCATCGCTGTCTCCTTCCCCAGCACAGCCAATGAGGAGAACTTCCGGAGCAACCTCTCTGAGCGGAG
ACCTGACATCACGAAGCTCCATGCCAAGGTACAGGAATTTGGCTGGCCCCGACCTCCACACCCAGCCCTGGAGAA
GATCTGCAGCATCTGTAAGGCCATGGACACATGGCTCAATGCAGACCCCTCACAAATGTCGTTGTTCTACACAACAA
GGGAAACCGAGGCAGGATAGGAGTTGTCATCGCGGCTTACATGCACTACAGCAACATTTCTGCCAGTGCAGGACCA
GGCTCTGGACCGGTTTGCAATGAAGCGGTTCTATGAGGATAAGATTGTGCCCATTTGGCCAGCCATCCCAAAGAAG
GTACGTGCATTACTTTCAGTGGCCTGCTCTCCGGCTCCATCAAAATGAACAACAAGCCCTTGTTTTCTGCACCACGT
GATCATGCACGGCATCCCCAACTTTGAGTCTAAAGGAGGATGTTCGGCCGTTTCTCCGCATCTACCAGGCCATGCA
ACCTGTGTACACATCTGGCATCTACAACATCCCAGGAGACAGCCAGACTAGCGTCTGCATCACCATCGAGCCAGG
ACTGCTCTTGAAGGGAGACATCTTGCTGAAGTGCTACCACAAGAAGTTCCGAAGCCCAGCCCAGACGTCATCTT
CCGTGTGCAGTTCCACACCTGTGCCATCCATGACCTGGGGGTTGTCTTTGGGAAGGAGGACCTTGATGATGCTTT
CAAAGATGATCGATTTCCAGAGTATGGCAAAGTGGAGTTGTATTTTCTTATGGGCCAGAGAAAATTCAAGGCAT
GGAGCACCTGGAGAACGGGGCCGAGCGTGTCTGTGGACTATAACACCTCTGACCCCTCATCCGCTGGGACTCCTA
CGACAACCTTCAGTGGGCATCGAGATGACGGCATGGAGGAGGTGGTGGGACACACGCAGGGGCCACTAGATGGGAG
CCTGTATGCTAAGGTGAAGAAGAAAGACTCCCTGCACGGCAGCACCGGGGCTGTTAATGCCACACGTCCTTACCT
GTCGGCCACCCCAACCACGTGGAACACACGCTTTCTGTGTATTTATATAGATGGAAATATACTTTATATTTTGT
ATCATCGTGCCTATAGCCGCTGCCACCGTGTATAAATCCTGGTGTATGCTCCTTATCCTGGACATGAATGTATTG
TACACTGACGCGTCCCCACTCCTGTACAGCTGCTTTGTTTCTTTGCAATGCATTGTATGGCTTTATAAATGATAA
AGTT

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FIGURE 1425

MSVSRTMEDSCELDLVYVTERIIAVSFPSTANEENFRSNLSERRPDITKLHAKVQEFGWPDLHTPALEKICSICK
AMDTWLNADPHNVVVLHNKGNRGRIGVVIAAYMHYSNISASADQALDRFAMKRFYEDKIVFIGQPSQRRYVHYFS
GLLSGSIKMNNKPLFLHHVIMHGIPNFESKGGCRPFLRIYQAMQPVYTSGIYNIPGDSQTSVCITIEPGLLLKGD
ILLKCYHKKFRSPARDVIFRVQFHTCAIHDLGVVFGKEDLDDAFKDDRFPEYGKVEFVFSYGPEKIQGMEHLENG
PSVSVDYNTSDPLIRWDSYDNFSGHRDDGMEEVVGHTQGPLDGSLYAKVKKKDSLHGSTGAVNATRPTLSATPNH
VEHTLSVYLYRWKYTLYFVSSCL

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FIGURE 1426A

CCGGCGGCGAGACGGAGAGGCGGCGGAGGTGCCGCGCAGGATCTGGTGGGCGGCCGCGAGGCTCGGGAGAGGC
GAACCGGAGCGCGGGACCGCGGTGCCCCGACCAGAGCCGGGAGACCGCAGCACCCGCGAGCCGCGGAGCGCG
CCGAAGACAGCGCGCAGGCGAGAGCGCGCGGGGCGGGGCGCGCAGGCCCTGCCCGCCCCCTCCGTCCCCACCCCC
CTCCGCCCTTTCTCTCCCCACCTTCTCTCGCCTCCCGCGCCCCCGCACCGGGCGCCACCCGTGTCTCTCTCT
GCGGGAGCGTTGTCCGTGTTGGCGGCGCGCAGCGGGCCGGGCCGGTCCGGCGGGGCGGGGGATGGCGCTGCTGGA
CCTGGCCTTGGAGGGAATGGCCGTCTTCGGGTTCTGCTCTTCTTGGTGCTGTGGCTGATGCATTTTCATGGCTAT
CATCTACACCCGATTACACCTCAACAAGAAGGCAACTGACAAAACGCCCTTATAGCAAGCTCCCAGGTGTCTCTCT
TCTGAAACCACTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAACATTCTTTGAATTGGATTATCCCAA
ATATGAAGTGCTCCTTTGTGTACAAGATCATGATGATCCAGCCATTGATGTATGTAAGAAGCTTCTTGGAAAATA
TCCAAATGTTGATGCTAGATTGTTTATAGGTGGCAAAAAAGTTGGCATTAACTCTAAATTAATAATTTAATGCC
AGGATATGAAGTTGCAAAGTATGATCTTATATGGATTTGTGATAGTGGAATAAGAGTAATTCCAGATACGCTTAC
TGACATGGTGAATCAAATGACAGAAAAAGTAGGCTTGGTTACCGGGCTGCCTTACGTAGCAGACAGACAGGGCTT
TGCTGCCACCTTAGAGCAGGTATATTTTGAACCTTCACATCCAAGATACTATATCTCTGCCAATGTAAGTGGTTT
CAAATGTGTGACAGGAATGTCTTGTTTAATGAGAAAAGATGTGTTGGATCAAGCAGGAGGACTTATAGCTTTTGC
TCAGTACATTGCCGAAGATTACTTTATGGCCAAAGCGATAGCTGACCGAGGTTGGAGGTTTGCAATGTCCACTCA
AGTTGCAATGCAAACTCTGGCTCATATTCAATTTCTCAGTTTCAATCCAGAATGATCAGGTGGACCAAACTACG
AATTAACATGCTTCTGCTACAATAATTTGTGAGCCAATTCAGAATGCTTTGTTGCCAGTTTAATTATTGGATG
GGCAGCCACCATGTGTTTCAATGAGGATATTATGGTATTTTTCATGTGTGCTTGCCTGGCATGGTTTATATTTGA
CTACATTCAACTCAGGGGTGTCCAGGGTGGCACACTGTGTTTTCAAACTTGATTATGCAGTCGCCTGGTTTCAT
CCGCGAATCCATGACAATATACATTTTTTTGTCTGCATTATGGGACCCAACATAAGCTGGAGAAGTGGTCTGCTA
CAGATTACGCTGTGGGGGTACAGCAGAGGAAATCCTAGATGTATTAACTACAGCTTTGTGACTGTATATAAAGGAA
AAAAGAGAAGTATTATAAATTATGTTTATATAAATGCTTTTAAAAATCTACCTTCTGTAGTTTTATCACATGTAT
GTTTTGGTATCTGTTCTTTAATTTATTTTTGCATGGCACTTGCATCTGTGAAAAAAAAAAAAACACATCTGTAG
TCTTGGCCAAATGATACACTTTATTTTTGTGGAAGTAGAGAATCAAGAGAATTGGTTCTAGGAACCTGGGTTCTGT
CATCATTGTTGTTTATTTTTTTTAAATAAATAAATAAATATATATATAGATGCTCTGCAACAACTCTGTGACAG
TATCCTTCAGTAGAGAAAGTTTCTTACTTGTGAGTACACTCTTTTAGAACATTTACGGGTGGCAGCAGCTTTGCT
TTAGAGTTTAGAAGATAATAGAAGGAATGACTATTCATGTCCAAAGTGAATGGTTTTGTGAGTGAACAACACAT
GGCGAGGTACTAACTGAGAACTTTTTCATGCTTTATGCCTACCTCTGTAGTTGTTGCAGAGCAAATACAAATT
GTAATAAGATAGCTAGGCCTTGCAGAAACAAACAGAAAACTTAAAAAAAATGATATAAGAGCTGGAGTCTAGT
ATTTATATGAATCTGTGAGAGATAATTTTTTTGGTCTCACTGCAATGAACCAAAGCGGCTGAGTTTGGTTTTTA
ATTGTAGCCATGTATTGAAGGCATCTTTTTGACCAACTCTGTGTTGTTCTGTCTGAACCATTTGTTAATCACTGT
GCTGTAATTAGTATAGCTAAATCTTTTCTTCTTGTCTCTCCCCAGCCACCCCGTCTTCCCTTAACATTTTTT
TCAGGGGGGGTTGGGAGTGGTTTCATTTTAGTGTGAGTGGATGTTTTGATAGTTGTAAGGAAAAAATGCATTTCA
GACACATTTACACATGAGCTATTTTCTTACACAGTATGTCTTATTGTTAATAAGAATGTAATTTTCATGATACAA
GTATTTAATACCTTTTTTAAGTCAGTAAATATTCTAGCCATCAATAAATTGCAGTAGAGTATTAAGAGGGGACAG
GATGAGTTTACTCTTAAATTAATCAGTATCAAACTAAGTCTACTGTGTGTGTTTTTTTTTTTTTTTTTTTTTTT
TTGTTTGTTTACTATTATAGTAAGTCTAGTCTTATTTAAATTGGATTTTTGTATTCAAGTTTATATGACAAAATA
GACTAGATCAGCGCTGGTTGTAAATGCATGCTGTACCTCACGTTTTTCTCCCATCATGCCGCTAAACTTGCTCG
CCAGGTTGTGCTTAACTTGTGGTGAAGTGGACTTGATTCTGTTTTGTTTTTTTTTTTTTAAANAAAAAACAAAAA
TGTAAGGGACAGTGCATAAGCCTTTTCTTTGTTAAGTAGTGGTGTGTTTTGCTTTTTCTTCAGGATTGGATGGCATG
TTGTCCACAGGAATGCCTACTGCAGGGCTAACACTGGCAATATGGCAGCTTTAAATTCTGAGTTACTACAGTCTC
CATGTCAAAGCATAATGTGTAGCATATCAGCAATAACTACATATTTATAGAAAACACTTTTTCACTTTACTGAGC
CAATTCATTTAATTGTCAAATGTCTATATCCATGGTTAAATGGCAACATATCTATAAGTATGTATACACATTAT
ATTTAAGCTTTTTCTCTGGGCCAACTGCTTCATCCTTTTTCTTTCTTTTTTTTTTTTTTTTGTATAGCCTTATGATGA
ATTTGTTTGAAGGGCATTTTCTTTATGAACAAAGGCTTGGATGCATATTCCTTTCTTTCTGTGAATGGGTATTAT
TCCCTGAGGAAAGTTGCACAGTGAACCAAGTCTGGTTGTGACCCACTACATGTTTTGTTTTTAATCACTATTAC
CTGAGTTGAACCTTTGCTCACCATGTTTGTACTTGTGGTCTGTTAATGAAGTTTGGTTGATGCCATCCTTTGCA
CTGCCGAAGCGTAATCTTGTGTATTACTTAGCTCTCTGCTGATCTCAGTATGGACAGTGAACAACAAAACCAA

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FIGURE 1426B

ATGGCTGGACAGACTTCTTGTGTTTTGTAAATATAAACTAGGACAGTTCTGTAGGTTTGTTTCAGTGTGCTAGTGG
AGTATTTTCCTTAATGTAAAACCTTCACTTAACAGAGAGATTCTTTGTTTAGCAAGCTTGGAGTGATGATAAAATGG
TAAGAAATAATATAAATGTTGAAGAAAGCATCACACAGAACTATAGGAGTCTAAATTTAATAAATCTTTAAAAA
AAACCAGTGTCTAGAATATATACCATGTTTTATTATTATAAATCATTGTCTTAAATTTTTGTTCAAAAAATAAAA
ATTTGAATACAATCAAAAAAATAAGTATAA

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FIGURE 1427

RRRDGEAAEVPRAGSGGRPRGSGEANRSAGPRSPRPEPGDRSTRSRPRARRRQRAGESARAGARRPCPPLPSPPP
SALSSPHLPASRAPAPGAHPVLLLRERCPCWRPQRAGPVRRGRGMALLDLALEGMAVFGFVLFVLWLMHFMAI
IYTRLHLNKKATDKQPYSKLPGVSLLKPLKGVDPNLINNLETFFELDYPKYEVLLCVQDHDDPAIDVCKKLLGKY
PNVDARLFIGGKKVGINPKINNLMPGYEVAKYDLIWICDSGIRVIPDTLTDMVNQMTEKVGLVHGLPYVADRQGF
AATLEQVYFGTSHPRYYISANVTGFKCVTGMSCLMRKDVLDQAGGLIAFAQYIAEDYFMAKAIADRGWRFAMSTQ
VAMQNSGYSYSISQFQSRMIRWTKLRINMLPATIICEPISECFVASLIIGWAAHHVFRWDIMVFFMCHCLAWFIFD
YIQLRGVQGGTLCFSKLDYAVAWFIRESMTIYIFLSALWDPTISWRTGRYRLRCGGTAEELDV

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FIGURE 1428

GACTCCTCATCACAAAAGGCGCGAAAGTGAACGGTCGGCAGAAGAACGGGACCACCGCCCTCATTTCATGCTGCAG
AGAAGAACTTTTTTAACAACAGTGGCTATTCTTTTGAAGCAGGAGCTTTTGTAAATGTCCAGCAAAGCAATGGTG
AGACTGCACTGATGAAGGCCTGTAAAAGAGGAAATTCAGACATCGTACGACTCGTAATTGAATGTGGAGCTGACT
GCAATATTTTGTCAAAGCACCAGAATAGTGCCCTGCACTTTGCGAAGCAGTCTAACAATGTGCTTGTGTACGACT
TGCTGAAGAACCATTTAGAGACACTTTCAAGAGTAGCAGAAGAGACAATAAAGGATTACTTTGAAGCTCGCCTTG
CTCTGCTAGAACCAGTTTTTCCAATCGCATGTATCGACTCTGTGAGGGTCCAGATTTTTCAACAGATTTC AATT
ACAAACCCCCACAGAACATAACCAGAAGGCTCTGGCATCCTGCTGTTTATCTTCCATGCAAACTTTTTGGGTAAAG
AAGTTATTGCTCGGCTCTGTGGACCGTGTAGTGTACAAGCTGTAGTTCTGAATGATAAAATTCAGCTTCCTGTTT
TTCTGGACAGTCATTTTGTCTTACTCATTTCAGCCCTGTTGTCAGGTCCCAATAAACTCTTCATAAGGTTGACAGAAG
CACCTCTGCCAAGGTTAAGTTGCTAATAGGTGCATACAGAGTGCAGCTGCAGTGAACCAACAGAAGGGACTGGG
CGGAGTTCTCTTCAGACCGATTCTTATACTCTCTTTGACAGCAGTTTGGAAATCTTCTAGCACATCTATGTAAAG
TTTTGTCTGTAAACCTCTTGCAGTTAAGCCTGTTGTCTGTTGTAGTCTGTAAAGATGCGACATAGCTGTGTCTGTG
CCAGTATGCCGGAATCTCAGTGCAGTGTCCAGACTGCGTATTTTCAGTTTTTCCACAATGTGGATAGTACATATGA
GGATTATTTAAGAAAATTAAAGACTTCACTTTCTTTTTTCTGGAGACGGAGTTTCGCTCTTGTGCCCAGGCTGG
AGTGCAATGGTGCGATCTCGGCTCACTGCAAGCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCT
GAGTAGCTGGGATTACAGACACCCGCCATGGCACCCAGCTAATTTTGTATTTTGTAGTAGAGATGGGGTTTATCCA
TGTTGGTCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCCCGCTCGGCCTCCCAAAGTGCTTGGATTAC
AGGCATGAGCCACCGCACCCAGCAAGAGTTATTTTCTTAACTTGAAATTTCTACTAGCCCTGGTGAACCTCTGT
GCTTAAAAAAAAAAAAAAAAAAGGAAAAATTGAGCTCTAAAACATTTGCTTACAGCAAGGGAGCCATGTTATATT
CAAGTTACCCAAGCACCAATAAAGTGTGGGTTTGTGCTGCCCTTGAAAGGGTGGGAGGCCTGATCTTTTTCTAGT
AGACAGTTGCCACACATTCCCCAAGCACAAAAGGTGGAGATGGCAGTCACTTTGTAAATATGCTGTAGTCACTTA
TCATCTTTTCAAAGGGTAACAAGAGAATCTAAGATGTAGTAAGAATGTAAACCAGTACACTATGAGACCTAAAAG
AGAGTATTAAATGTGAACTTTGTAGCAGAGCGTGGTGGCTCACACCTATAATCCAGCGCTTTGGAGGCTGAGGTT
GGAGGATTGCTTGAGTCCAGGAGTTCAAGACCAGCCTGGGTAACATGGGGTGGAACAAGCCTGTAGTCCCAGATA
CTCAGGAGGCTGAGGTGAAAGGATTGCTTGGGCCAGGGAGGTCAAGGCTGCAGTGAGCCGTGAAAGGCCACTGCA
CTCCAGCCTGGGTGACAGAAATGAGACCTTGTCTCAAAAAAAAAAAAAAAAAAGTTTCTTGGAACCTATACGGTTTTT
TTTTGTTTTTTTTTTTTGAAAAGCCAGACCTTGTGCCCTTGTTTTGAACACCGACTGGGAAGATGGGGCTTAGGTA
ACAGCCAAACCTGGCTGTCAGCTGTGTGGGAGCCACCACCTCTCTGGGAAGAGTTCCTGCTTCTGTATGGCAAG
CATAAATCAAGCTCAGTCTGGGTATGGAGAAGTTGAAAATTGTTTTGTTTCTCATTAGTTTATAATTGTATGAA
ATACGATTTTAAATGAAAACTTTTCAGAATTCACGTTTGTGTAGATATTTTCAGAGAACCATTTTTACTTTACATCC
TAAAACTGCCTTTTCTATGGTTTTGTCAATAAAACACTATGATGTT

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FIGURE 1429

MKACKRGNSDIVRLVIECGADCNILSKHONSALHFAKQSNNVLVYDLLKNHLETLSRVAEETIKDYFEARLALLE
PVFPIACHRLCEGPDFSTDFNYKPPQNIPEGSGILLFIFHANFLGKEVIARLCGPCSVQAVVLNDKFQLPVFLDS
HFVYSFSPVAGPNKLFIRLTEAPSAKVLLIGAYRVQLQ

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FIGURE 1430

TGAAAACACAATCAGCTCTGACAGTTAGACATGCACACAGACGCCATAGCTGGATTGGAAACATTGATGTTTTAA
AAATTTATTTTTTTTTTGGAAATAGTTGCACAAATGCTGCAATTTAGCTTTAAGGTTCTATAGATTTTTAACTAGT
CCAACACAGTCAGAAACATTGTTTTGAATCCTCTGTAAACCAAGGCATTAATCTTAATAAACAGGATCCATTTA
GGTACCACTTGATATAAAAAGGATATCCATAATGAATATTTTATACTGCATCCTTTACATTAGCCACTAAATACG
TTATTGCTTGATGAAGACCTTTCACAGAATCCTATGGATTGCAGCATTTCACTTGGCTACTTCATACCCATGCCT
TAAAGAGGGGCGAGTTTCTCAAAAGCAGAAACATGCCGCCAGTTCTCAAGTTTTCCTCCTAACTCCATTGAAATGT
AAGGGCAGCTGGCCCCCAATGTGGGGAGGTCCGAACATTTTCTGAATTCCTTTCTTGTTTCGCGGCTAAATGA
CAGTTTCTGTCATTACTTAGATTCCGATCTTTCCCAAAGGTGTTGATTTACAAAGAGGCCAGCTAATAGCAGAAA
TCATGACCTTGAAGAGAGATGAAATTCAAGCTGTGAGCCAGGCAGGAGCTCAGTATGGCAAAGGTTCTTGAGAA
TCAGCCATTTGGTACAAAAAGATTTTTAAAGCTTTTATGTTATACCATGGAGCCATAGAAAGGCTATGGATTGT
TTAAGAACTATTTTAAAGTGTTCCAGACCCAAAAA

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FIGURE 1431A

GGAAGGTTTAAAGAAGAAGCCGCAAAGCGCAGGGAAGGCCTCCCGGCACGGGTGGGGGAAAAGCGGCCGGTGCAGC
GCGGGGACAGGCACTCGGGCTGGCACTGGCTGCTAGGGATGTCGTCTCTGGATAAGGTGGCATGGACCCGCCATGG
CGCGGCTCTGGGGCTTCTGCTGGCTGGTTGTGGGCTTCTGGAGGGCCGCTTTTCGCCTGTCCACGTCCTGCAAAT
GCAGTGCCTCTCGGATCTGGTGCAGCGACCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCTAACAGTG
TAGATCCTGAGAACATCACCGAAATTTTCATCGCAAACCAGAAAAGGTTAGAAATCATCAACGAAGATGATGTTG
AAGCTTATGTGGGACTGAGAAATCTGACAATTGTGGATTCTGGATTAAAATTTGTGGCTCATAAAGCATTCTCTGA
AAAAACAGCAACCTGCAGCACATCAATTTTACCCGAAACAAACTGACGAGTTTGTCTAGGAAACATTTCCGTCACC
TTGACTTGTCTGAACTGATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAGACTCTCC
AAGAGGCTAAATCCAGTCCAGACACTCAGGATTTGTACTGCCTGAATGAAAGCAGCAAGAATATTCCCCTGGCAA
ACCTGCAGATACCCAAATTGTGGTTTGCCATCTGCAAATCTGGCCGCACCTAACCTCACTGTGGAGGAAGGAAAGT
CTATCACATTATCCTGTAGTGTGGCAGGTGATCCGGTTCCCTAATATGTATTGGGATGTTGGTAACCTGGTTTCCA
AACATATGAATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACTAACATTTTCATCCGATGACAGTGGGAAGC
AGATCTCTTGTGTGGCGGAAAATCTTGTAGGAGAAGATCAAGATTCTGTCAACCTCACTGTGCATTTTGCACCAA
CTATCACATTTCTCGAATCTCCAACCTCAGACCACCACTGGTGCATTCCATTCACTGTGAAAGGCAACCCCAAAC
CAGCGCTTCAGTGGTTCTATAACGGGGCAATATTGAATGAGTCCAAATACATCTGTACTAAAATACATGTTACCA
ATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAATCCCACTCACATGAACAATGGGGACTACACTCTAATAG
CCAAGAATGAGTATGGGAAGGATGAGAAACAGATTTCTGCTCACTTCATGGGCTGGCCTGGAATTGACGATGGTG
CAAACCCAAATTATCCTGATGTAATTTATGAAGATTATGAACTGCAGCGAATGACATCGGGGACACCACGAACA
GAAGTAATGAAATCCCTTCCACAGACGTCAGTATAAAACCGGTGCGGAACATCTCTCGGTCTATGCTGTGGTGG
TGATTGCGTCTGTGGTGGGATTTTGCCTTTTGGTAATGCTGTTTCTGCTTAAGTTGGCAAGACACTCCAAGTTTG
GCATGAAAGGTTTTGTTTTGTTTCATAAGATCCCACTGGATGGGTAGCTGAAATAAAGGAAAAGACAGAGAAAGG
GGCTGTGGTGCTTGTGGTTGATGCTGCCATGTAAGCTGGACTCCTGGGACTGCTGTTGGCTTATCCCGGGAAGT
GCTGCTTATCTGGGGTTTTCTGGTAGATGTGGGCGGTGTTTGGAGGCTGTACTATATGAAGCCTGCATATACTGT
GAGCTGTGATTGGGGAACACCAATGCAGAGGTAACCTCTCAGGCAGCTAAGCAGCACCTCAAGAAAACATGTTAAA
TTAATGCTTCTCTTCTTACAGTAGTTCAAATACAAAACGAAATGAAATCCCATTGGATTGTACTTCTCTCTGTA
AAAGTGTGCTTTTTTGACCCTACTGGACATTTATTGACTTAATTGCTTCTGTTTATTAATAATTGACCTGCAAAGTT
AAAAAAAATTAAAGTTGAGAACAGGTATAAGTGCACACTGAATAGTCTAATCTACATGTAACACATATTTTAGT
ATGATTTTCTATACTCTAATCAGCACTGAATTCAGAGGGTTTACTTTTTTCATCTATAACACAGTGACTAAAAGA
GTTAAGGGTATATATAACCATCACTTTGGGACTTGGTAGTATTATTAAGGTTATTTCCCTTCACTGTCAATAAAA
GTCCAAATGTTTAGCTTAGGTCTGAGAGTCAAACAATGTTAAGGATTGTCTTAAAGTTCCTTAGCCAGCAAAACA
AAACAAAACAAAACAAACAAATGAAAAACGTTTTAAAAAGAAGAAGAAGAAAACAAGAACAAGCAGCAACAG
CTGTTTTGTTGGGGCTATAGATTTAAGTTAGGCATAGTCAATTTTCAAGATAACTAAGAGTGGAATATATGCATAT
GGTGAAATTATAACCTTGCCCTTTTTTATTTGCCCTCTGCGATCCACCTGCTTTTTAGAAAGTCTGCCGAGTGAGA
AGGCCACAGTATCTCATGCTGTTTGCATTACAGAAGTGCAGCTTTTCTACTCTGAAAAGGCCTGGGAGCAGAATG
GCTGGCCTGCTGTGAGCAGGAGAGGAGATTCTAAGAAGGATAGTCCCCCTACAACATACTGTCATACTGCTGGG
TTTTCATGGGTAGGAAAGCTTGTCTGACCCAGCAGCAAAGAGGTGGCAGGTCGCTAATGAATATATGCTTTAT
AATGTCCTTCTTTCATTGCTGAGAGGGCAGCCTTAGAGCTGTGGATTCTGTCATCCCCCTGAGTCTGACCCATGG
ACACCTGTTTCATTCACTTTAGCATCACAGTGACCTTTGTATGCTCTGTTTCAGTCTGTGTCAGGCAGTATGCTTG
TCCTGAAGAGAGGTTTGGCTATCCCCACCCACCCACCCCTGTTCTTTTTTATCAGGAGGACTTCAGAG
CCAGGCCTGCAGCATTTTGTGTTGAAAACACAATCAGCTCTGACAGTTAGACATGCACACAGACGCCATAGCTGGA
TTGGAACATTGATGTTTTAAAAATTTATTTTTTGGAAATAGTTGCACAAATGCTGCAATTTAGCTTTAAGGT
TCTATAGATTTTAACTAGTCCAACACAGTCAGAAACATTGTTTTGAATCCTCTGTAAACCAAGGCATTAATCTT
AATAAACAGGATCCATTTAGGTACCACTTGATATAAAAAGGATATCCATAATGAATATTTTATACTGCATCCTT
TACATTAGCCACTAAATACGTTATTGCTTGATGAAGACCTTTCACAGAATCCTATGGATTGCAGCATTTCACTTG
GCTACTTCATACCCATGCCTTAAAGAGGGGAGTTTCTCAAAAGCAGAAACATGCCGCCAGTTCTCAAGTTTTCC
TCCTAACTCCATTTGAATGTAAGGGCAGCTGGCCCCCAATGTGGGGAGGTCCGAACATTTTCTGAATTTCCATTT
TCTTGTTCGCGGCTAAATGACAGTTTCTGTCACTTAGATTCCGATCTTTCCCAAAGGTGTTGATTTACAAAG
AGGCCAGCTAATAGCAGAAATCATGACCCTGAAAGAGAGATGAAATTCAGCTGTGAGCCAGGCAGGAGCTCAGT

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FIGURE 1431B

ATGGCAAAGGTTCTTGAGAATCAGCCATTTGGTACAAAAAGATTTTTAAAGCTTTTATGTTATACCATGGAGCC
ATAGAAAGGCTATGGATTGTTTAAAGAACTATTTTAAAGTGTTCCAGACCCAAAAAGGAAAAATAAAAAAAGGA
ATATTTGTACCCAACAGCTAGAAGGATTGCAAGGTAGATTTTTGTTTTTAAATGGAGAGAAGTGGACAGATAAGG
CCATTTAATATATCAAAGATCAGTTGACATCTCCTAGGGAATGATGAAAAACAGCAGGCTATTAGAAAATTATTTT
ATATAGTTCTCGTGTCTTTTCTTTTTTTTTTAATCCCTGAAGGGATGATCAGTAACATAGCTTCTCTTTTCTGTAC
TCTAGACCACCCCTTTTCATCATTTTGCTTTTTATGTCTCCCATAGAAAATGTGCTTTTTAGAGCTTCCTAATGC
ATGTGTTGCATTATTGCAGCATTAGAAAAGGAGAGGTAGCATTTTTGCTGAAAATCGGGCCTGTCCTCTCCAATA
AAGGTTCTGGCACTTCAATGCCAGGCAGGTCTCCTAAATGAACAGAATGATCTGTGTGAGCCGATGCCTGCCCTT
CCAAGAGGGGCCACTGTCCCCAGCCGAGCCAACTGTGTCCCACAGGAATGGGAGCCCTAGGTTTCCAAATCTTGTC
ATTCTTTAGGAGAAAACATGAAACCTGGATTTTCGTGTGAAATGTCCCGATTGTTAAAAAGTTGGCTCAATTATTTT
TAAACATTTTGTAAAGCCAACAAAAGTCTGTGGGCTGCCAGTTTATTACTTTTGTCTTAAACATGATCATTGTT
CTCTCACGGTATCCTTCTGTCTTCCCGTTGCAAATTCATTTTCTTTCTTCTGACATTGCCATTGAGGGCTTTG
TTACCACAAGCTAAGAACTGAGTTTAAACAGCCAGTTATCTGCAACATGTCAATTACCTTTGCTCCTCTCCTGT
GATTTCCACCATGCTGTGACCCCTCAGCTGTCTCCCTTTGCTGGGAATTCTGCACCAATGTCTCCCTCAACCCAT
TCCCTGGTTGGTCTTACTCCCGTGTGGCCAGAGACATCCTAGCAAATCCTTCTCCTATTATATCTGACACTAAT
TTCTTTTCAACAGCGCTCATGTCTCTTGGCCAGTCAGGTGCTGCCAGGTTTAGATAGGAAAGTACATGTCCCAT
TTTCATGGGTGCCCTTAATGTGGTCCACGTCTATATCTTATTATATTACTCATGGCTCAATGGGGGCTCCAG
AGACCTCTCAGGCTGCTGAGCTAGACTAAGGAATGCATCCACTGTCATCACATGAGACACTGACTCTGTGACGA
CAAAAGTACAAACAGTCTGAGGCTAAGAAAGTTTCATCTCACACAGGAAAAACAAATCTCAACACACATTAGAG
ATAATTGATTGAGGGTTTTCTCTCCAGTCTCCAGCAGGGACTGATTTCAATTTCTGACCCACTAGGTTTTCTT
TCCAGAAATAGGTAGCAAGGACAAGAACTAAACAATCCCAGCCCCACCCAGCAACACAGAACACAGGAGTTTGCT
TTTGGCTTCTCACTCTCCAAGTAACCCTGAATTAGGCCCAGAATGGCTGAGGCTTGGAGCATCTCCTCAGACAGA
GCAGAGGCGACACCTCTTCAAGGGTGTGTGGAGTAAATAGCTCGAAGAGCTGAAGACAGAAAACAGTTTCACGC
CAGGTGCGAGAGAGAGCGTAATGGAGGGAAGCCGCTTTCTCTCTCTCTTTTCTCTTTATTTCTTTAGAGC
ACTGACTTTTTTTTCTCTCTCTCTCTAGTATTCTAAACTGACCCCATGACCAACTGAGAATTTATTTTTGTTTC
ATTGGTTGTTTCACAGAATTAGAACACACAGACTTTTTATTCTCCTCCATTGCAAAATGGAATCAAGATACTACAC
AAGACCTGTGCTTTCTTCTTTGCTGATTTACACCTCCGCTGTTTTGGTGCTAGCTGTCTAGAACTTCTCTCT
TGGTTTGAATCTGATTCCTTCACTACACTAGAAAGTTTATTTTCTCTGTTTTGTCTAGACTCCAGATACAGAG
GGACAGCTGGACTGAGGACAAGCAATTCATCTAGCATAGGGTCTCTCAGGGTTGGTGCATCCAGCCACATGGGC
AGGGCCAGTCACATCTAGTCTATGTCCCAGAGCCCTTGGAGTTGCGCAGCTTAGCTGACTTGACTCCAAGGAAA
TTAGTACAGAAAGTAACCACTCTATTAAGTGTGTTCTGCTATGTTTACATGCCTGTAGTACCTGCAAACCATGCCA
GGTTCACTAAAAGACATAGGGGAAGATTAAGGACTCTTTTGGACAGACCATGAATTGAATTTGCTGCCAGGTGCT
GCCAGACTGAATTTGGCTGACAGAACTCCAGCCCAGGAAAGTTCCATGACAAATGACTGTGCGAGAAGGAAATTT
CCCCTAAAAGTCAGTCCATTTTCAAGTTTTGGTCTTTCAGAGACAAAAGAACGTCCCAGCCACCTGATTTTGATGG
TGAGGTAACCTCTAAGTTGAATTCAGGCTAGTGTTGAGTATAGCTTTGGCATGTTTATGAGTGAGCACCAGAAAT
GTGTTGAACCAACCCCCACCCCTAACTACTGACTATGACTGCAGTGGGTTTTATGGGGAAAAAAGTGTGAAAA
GCAAAAAAGAAAGGAACAGAGATTTTTTATCACCTTTATTGTAAGACAGTCCATTTATGAATTGAGTATAAACACA
TACAAAAGTAACAAGAGATTCTAAGAAACGCAAATCCTTGAGTTTCACGCACCTTCATGTTCAACCATTTGCTGTA
ATCCAGAGGCAGCCTGTGAATCATTTCTCATGCCCTGTTTTTTTTTGTTTTTTTTCTTATAATGTTCTGGGTTTAAA
AGCCATCTTTTCCACATTTTCTGTAAATAATGGATAATCATTTTAAAAAATTTATTTTTAGTGCTGTTTTAACA
ATGTAGATAGATCATAAATGTACTTGCTGAATTCATCATTTTAAACAAGCCAATAAAGTTTGATAATTCATCTC
CAA

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FIGURE 1432

MSSWIRWHGPAMARLWGFCWLVLVGFWRAAFACPTSCCKCSASRIWCSDPSPGIVAFPRLEPNSVDPENITEIFIAN
QKRLEIINEDDVEAYVGLRNLTIVDSGLKFVAHKAFLKNSNLQHINFTRNKLTSLSRKHFRHLDLSELILVGNPF
TCSCDIMWIKTLQEAKSSPDTQDLYCLNESSKNIPLANLQIPNCGLP SANLAAPNLTVEEGKSITLSCSVAGDPV
PNMYWDVGNLVSKHMNETSHTQGSLRITNISSDDSGKQISCVAENLVGEDQDSVNLTVHFAPTITFLESPTSDDH
WCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHVTNHTEYHGCLQLDNPTHMNGDYTLIAKNEYGKDEKQIS
AHFMGWPGIDDGANPNYPDVIIYEDYGTAANDIGDTTNRSEIPSTDVTDKTGREHLSVYAVVVIASVVGFCLLVM
LFLKLARHSKFGMKGFVLFHKIPLDG

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FIGURE 1433

GGGCGCGGCGCCGGAGGAGGAAGTGGTGAGGTTGTTGCTCCTTCAGCGCCTATCGCTGGCTCTTGGGGCGCAGAG
AGGGGCCGAGTCTCCGCGGCTGCGTCGAGCTCCCTTGAGTCCCCTCCATGTTCCCCGGCGCCTACTACTCCCCCT
TCCTAAGGCCGCGCTTACCCCGGGTCTATGGAAGTAATGGAAGGACCCCTCAACCTGGCTCATCAACAGAGCA
GACGAGCAGACCGTTTATTAGCTGCAGGCAAATACGAAGAGGCTATTTCTTGTCACAAAAAGGCTGCAGCATATC
TTTCTGAAGCCATGAAGCTGACACAGTCAGAGCAGGCTCATCTTTCACTGGAATTGCAAAGGGATAGCCATATGA
AACAGCTCCTCCTCATCCAAGAGAGATGGAAAAGGGGCCAGCGTGAAGAAAGATTGAAAGCCCAGCAGAACACAG
ACAAGGATGCAGCTGCCCCATCTTCAGACATCTCACAAACCCTCTGCAGAGGATGCAGAGGGCCAGAGTCCCCTTT
CTCAGAAGTACAGCCCTTCCACAGAGAAATGCCTGCCTGAGATTCAAGGGGATCTTTGACAGGGATCCAGACACAC
TACTTTATTTACTTCAGCAAAAGAGTGAGCCAGCAGAGCCATGTATTGGAAGCAAAGCCCCAAAAGATGATAAAA
CAATTATAGAGGAGCAGGCAACCAAAATTGCAGATTTGAAGAGGCATGTGGAATTCCTTGTGGCTGAGAATGAAA
GATTAAGGAAAGAAAATAAACAACTAAAGGCTGAAAAGGCCAGACTTCTAAAAGGTCCAATAGAAAAGGAGCTGG
ATGTAGATGCTGATTTTGTAGAAACGTCAGAGTTATGGAGCTTGCCACCACATGCAGAAACTGCTACAGCCTCCT
CAACCTGGCAGAAGTTCGCAGCAAATACTGGGAAAGCCAAGGACATTCCAATCCCCAATCTTCCTCCCTTGGATT
TTCCATCTCCAGAACTTCCTCTTATGGAGCTCTCTGAGGATATTCTGAAAGGACTTATGAATAATTAATGGA
GGCCACAGAAAAGGGGAAAAGAGGAAATAATACAGTAATCGTTAATCCAGCAAAAAGAAATGAAAAGGGAAAACC
ACATAGAAGGGTAATCCCGGAAATGCTTCATCTGGTGGACTGTGGGAGCAGAGGCATTGCCAGGACTTGGGAAAC
AGTCACTGTGAAATGCGCTGCGTATCTCATTCACTCACTTCAGCTAATGACTCCGACTTGGCAGACGCTAAACTC
ATGGAGGTTTCGGTTTCTCCTGATACAAACCAATGGCTACCTGGAAGAATTTCTTTCAAGCAACAGTTATTTTTC
TTATCTTCAGGGTTAAAATGTATAAAAGTTATGTGTAATTAATCTATAATGCCATAAATGATAATGCAAAACCTA
AATAATATGGTGGCCGGAGGGGCTGCCTTATATTTGAAACATGCTTTCTATCATGCATTGACTGTATGCATTTTG
TTAATGCACATTCTGTTTGTGTTAAGGTGTGTGAGATACACACCTTTCTAGATGAAACTATATGTGCCACACTTG
CACTACTCATAATGATAACCTCAAGACTATCAGAAGAAATATTTAAATTTCCATTTTATGAAGAAAGGAACCAAA
TTATTATGCTTTTTAAAACAAATTACCAGTTTACATAATTAATCAGGGTGCATTTTAAGTTCTAACTTCGTTTAT
TGTATAATGCATCATTTGAAAATACCAAGGAGGAAATACCCTTTGTTTTTAATGATGCAAGAGTGGACGTAATGC
TAGTTGGCAGTATTTTATTGTAAGAAATCAATAAAGTAATTGTGTTTTAAAAAAAAAAAAAAAAAAAAA

1611/2777
FIGURE 1434

MEVMEGPLNLAHQQSRRADRLLAAGKYEEAISCHKKAAAYLSEAMKLTQSEQAHLSELELQRD SHMKQLLLIQERW
KRAQREERLKAQQNTDKDAAAHLQTS HKPSAEDAEGQSPLSQKYS PSTEKCLPEIQGIFDRDPDTLLYLLQOKSE
PAEPCIGSKAPKDDKTIIIEEQATKIADLKRHVEFLVAENERLRKENKQLKAEKARLLKGPIEKELDVDAD FVETS
ELWSLPPHAETATASSTWQKFAANTGKAKDIPIPNLPPLDFPSPELPLMEELSE DILKGLMNN

1612/2777
FIGURE 1435

AAATTGCAGAAAGTTACTTATTCTTTTAAGAGGTCTGCCTGGTTCTGGGAAAACAACATTGTCTCGAATTCTGCTT
GGTCAGAATCGTGATGGCATTGTGTTTCAGCACTGATGACTATTTTCACCATCAAGATGGGTACAGGTATAATGTT
AATCAACTTGGTGATGCCCATGACTGGAACCAGAACAGAGGTTTGTGTTTGGGCTAAGTGTCCTCAGGATAGAATAT
TTGGCTAGGAGTCAAAAGACCTAGATTTTATTTTCAGCTTAGGTTTTTACCAGCTGAATGACTGTAGGCAAGCCG
TTTAAATAGCTTTGAGACCTAATTTCTCCATCTGTTAGAGGTGGTGATAATTATACTTGCCCTACCTGATCAGGG
TTTTTGTAAGAAAGCAGAGAATTTAGATAAAACGCTTTGTAACTGTAAATAGTTTATCAGTATAAGCTGGTAAAA
TAATAGCAGCATGGGATATTTTAAGAGGCTTTATTTTATACTTGATGAGTAAATTCAGAGAACTTTGAATCTGTA
CCATTGTTATGTAGTCCCAAAGTTATTTCCCGAGAATAATGCTAATGTTTTCCAAGGCTTAATATACTGGTTGT
GAATATTAAAAAGTTTTTCTCATTGATATTGCTCTACAAGAAACCTACTTAATACATTTTTTAGCGGACATGGGTC
AATTTCTGTTTATCATTAAATAGGGGTTCTTAACTGGGCTACACTTTTGAATTTCTTGGGGACTTTAAAAAAAG
CAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGAATTCGATAGCAAGCTTATC

1613/2777
FIGURE 1436

KLQKLLILLRGLPGSGKTTLSRILLGQNRDGIVFSTDDYFHHQDGYRYNVNQLGDAHDWNQNRGLFWAKCPRIEY
LARSQKT

1614/2777
FIGURE 1437

CGCTGGGAATCCTGCTCCTCCTCAGGTCCTGGCAAGTTTCAGGGCCCCCTCCCTAGGCCTTACTTAAAAGGCTGAG
GCATCCTTGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAAAGGAACATTCTGAGGGGAGTCTACACCCCT
GTGGAGCTCAAGATGGTCTGAGTGGGGCGCTGTGCTTCCGAATGAAGGACTCGGCATTGAAGGTGCTTTATCTG
CATAATAACCAGCTTCTAGCTGGAGGGCTGCATGCAGGGAAGGTCAATTAAGGTGAAGAGATCAGCGTGGTCCCC
AATCGGTGGCTGGATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCGTGTCATGTGGG
GTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAG
AGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCCGGCTGCCTACCCGGGCTGGTTCCTG
TGCACGGTGCCGTGAAGCCGATCAGCCTGTGAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATC
ACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGGGTG
AGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTCTCTGCTCTCAGGACCCCCACGTCTGACTTAGTGGG
CACCTGACCACTTTGTCTTCTGGTTCCTCAGTTTGGATAAATTCTGAGATTGGAGCTCAGTCCACGGTCTCCCC
CACTGGATGGTGCTACTGCTGTGGAACCTTGTA AAAACCATGTGGGGTAACTGGGAATAACATGAAAAGATTTT
TGTGGGGTGGGGTGGGGGAGTGGTGGGAATCATTCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCCCCG
CAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTCTGTCACTCACCCTGTG
CAGGAGAGGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCAGCCCCACCCCTTCCCTTTAATCCTG
CCACTGTCATATGCTACCTTTCCTATCTCTTCCCTCATCATCTTGTGTGGGCATGAGGAGGTGGTGATGTCAGA
AGAAATGGCTCGAGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCAAGATACAATC
AAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGG
CATATATTGCAATTAATTTTAATTA AAAAGATACCTATTTATATATTTCTTTATAGAAAAAGTCTGGAAGAGTT
TACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTAT
TTCCTAATTTTCTACAATGAAGATGAATTCCTTGATAAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCAGA
GCAGACATCATCTCTGATTGTCCTCAGCCTCCACTTCCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTGCTC
TGGTTGGTTGTAGTAGTATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTGCTGAAGTTGTGTG
GCTGGAATCTCTGGGTAAAGGAACCTAAAGAACA AAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCT
GGGATTCCAAGGCATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCACA
TCCTTCTTGGAAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAGTTAGTTAAGACAAGGTC
ATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCTTGTATGAAAAGGAGAGGACACAGAGACAGAG
GAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGG
ATTGTGGCAACCATCAGAAGCTTGGAGAGGCAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCTC
TGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAAGAATAAAATTCGGCTGTTTTAAGCCACCAA
GGATAATTGGTTACAGCAGCTCTAGGAACTAATAACAGCTGCTAAATGATCCCTGTCTCCTCGTGTTTACATTC
TGTGTGTGTCCCCCTCCCAATGTACCAAAGTTGTCTTTGTGACCAATAGAATATGGCAGAAGTGATGGCATGCC
ACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTTGAGCCCTCTCTCTCTGCCACCCACCGCCCCAA
TCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGACTTACGTGGT
AAAAAATGAAGTCTCCTGCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGTTTG
TTGTTTTAAAGTTGCTCAGTTTTGGTCTAACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAGAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1438

MVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAGKVIKGEESVVPNRWLDASLSPVILGVQGSQCLSCGVGQE
PTLTLEPVNIMELYLGAKESKSFTFYRRDMGLTSSFESAAYPGWFLCTVPEADQPVRTQLPENGAWNAPITDFY
FQQCD

1616/2777
FIGURE 1439A

AGCGATCCGAGGCCCGGCCCCGGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCCGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGGAGCCCCGAGCAGCCGCGCCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCCCTTCTGTGT
CATCCTGCCGGAATTCAGAAGCCAGAGAGGAAGATTTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCT
CTTTATCTTCTTAGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTTCAGCTGACCCTTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTCACGTCTGGCCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCCAAAAGACCGAGCTCTCTTCAACGG
AGCCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTTCAGCTCTTTGTTGCTGGCTTAATTGTCCTACT
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTTCAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGG
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCTATCTCCCAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTGGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCCTGGCTGACTTCCTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTCATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTTCAGCCGACTGCCAGAGAAGTGGAATGGTATAGGATTGTCCC
CAAGTGTCATGTAACTTTTGTTTTAACCTTTGCACCTTCTCAGTGTGTATGCGGCTGCAGCCGCTCTCACCTGT
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGATTTTCCCGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG
TCCACTTGGGTCATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCCTTGCAAGTATGTCCGTT
TGTCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT
GTCGTGAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTTCGGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCCTGGAGATGAGCACCCCTCTCTCTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCCCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCAGGGCTTACCACCCTATCACAG
TGGCCTTGCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTCTGCTGCTACAGAGGGGCAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGCCCTCTG
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCTCAGGAGGAGCCCCATAGTC
CCGCTGACAGCTGTAACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA

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FIGURE 1439B

ATAAGTGACAAATAAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1440

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIIFLVCCQIPLFGIMSSDSADPFYWVRVILASNRGT
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRDT
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPILQSALVSN
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYYLSPPESFGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

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FIGURE 1441

GAAAGGTCACAGCGCGGCAGCGGGTCTGGCTGGCGGCAGCGGCGGGAGGGAGCCGAGAGACCCGAGTGCACGTGT
GGAGAAGCGGCGGCACAAGCGCGGCGGCGGGAGACACTCCCGCCCCACCAGACTCAAGCCCTCACTCGACTCTC
GCGGCCTTCGTTGCTCGCACAGCTCCCTGCCAGGCTAGGAGGCCGGCTTGCGGGGTGAGTGGCCCGAGCTAAG
GGTGCAGGAGACCTAAGGGCGGCGACTACGACGGCGTTGATATCGGTGGTAACGACGGCCTCAGCAGGCGGGGAAG
ATGAAAAGGTAGCCGGATCGAGCTGGGAGATGTGACACCACACAATATTAAACAGTTGAAAAGATTGAATCAGGTC
ATCTTTCCAGTCAGCTACAATGACAAGTTCTACAAGGATGTGCTGGAGGTTGGCGAGCTAGCAAACTTGCCTAT
TTCAATGATATTGCTGTAGGTGCAGTATGCTGTAGGGTGGATCATTACAGAATCAGAAGAGACTTTACATCATG
ACACTAGGATGTCTGGCACCTTACCGAAGGCTAGGAATAGGAACTAAATGTTAAATCATGTCTTAAACATCTGT
GAAAAAGATGGTACTTTTGACAACATTTATCTGCATGTCCAGATCAGCAATGAGTCGGCAATTGACTTCTACAGG
AAGTTTGGCTTTGAGATTATTGAGACAAAGAAGAACTACTATAAGAGGATAGAGCCCGCAGATGCTCATGTGCTG
CAGAAAAACCTCAAAGTTCCTTCTGGTCAGAATGCAGATGTGCAAAAGACAGACAACTGAACAAATTACAAATGA
ACTTCTTGCACTTGCTTGTGCGCAAATAAAAGAGAGGCCCATTGATTCTCCCCACCCCAACACTTTTCTTTT
AAAGCTTTTCTCCCTCCTTGTTCTTGTTTTCTTTCTTTCTTTCTTTCTTTCTGAGAGTTTTAATACTTTCAAGG
ACTTTAAAAAATAATCATGTTTGAATTGTTTTCTTTATTTTTGTGAGGTGGTTGAAGGAAGGACAAGGTAGA
TCTGTTTAGTTTTGCAGTTGAAGTTAGATGGTCTAAACATTTAATTGTCAAATAATTTCAAATTTAATGCTCTG
CTTTCACATTGAAGGGCAGAGCCTACAAAACATTGTATATTTCAAAGACAAAAAGAAGCAGCAGCAGTATCTTG
TTCTCTAATTCATAGACAAGTTGAGTGTGTTGTGGTACTTTGGGTTTTTAAACACTTTGGGATACTAATCCCTA
GACATTGCCTTCACTCCACCTTTAGTCCTTCTGAGCACTCTCTCGGGAGTTGGAACATTGTTATCCTTGTAAAGAA
ATACTAAGCTTATGTTGATTTTTAAGTAATTATATCTTCTTCTTCTTCTGCTGGTGGGTGGGGCAGTTTGGTTAGTG
TTATACTTTGGTCTAAGTATTTGAGTTAAACTGCTTTTTTGCTAATGAGTGGGCTGGTTGTTAGCAGGTTTGT
TTCTGCTGTTGATTGTTACTAGTGGCATTAACTTTTAGAATTTGGGCTGGTGAGATTAAATTTTTTTAATATCC
CAGCTAGAGATATGGCCTTTAACTGACCTAAAGAGGTGTGTTGTGATTAAATTTTTTCCCGTTCTTTTTCTTCA
GTAAACCCCAACAATAGTCTAACCTTAAAAATTGAGTTGATGTCTTATAGGTCCTACTACCCCTAAATAAACCTGAA
GCAGGTGTTTTCTTCTGGACATACTAAAAATACCTAAAAGGAAGCTTAGATGGGCTGTGACACAAAAAATTCAA
TTACTGTCATCTAATGCCAGCTGTTAAAGTGTGGCCACTGAGCATTGATTTTATAGGAAAAAATAGTATTTTT
GAGAATAACATAGCTGTGCTATTGCACATCTGTTGGAGGACATCCAGATTGCTTATACTCAGTGCCTGTGATA
TTGAGTTTAAGGATTTGAGGCAGGGTAATTATTAACATATTGCTTCTATTCTTGAAAAATAGAAGTGAAAA
TGTTAATAATACAAATGTCAGTGTGACCTCCTCCACTGTGAGGACTGGTTTATGCCAGATCATTTTCCGGCACAC
ACGGAGTGGCTTTGACAGATTGATAACTTTGTAAGATGGGAGACATCTGAAATATTCATGTTTTCTTTTGTAGT
CCCATCTCCACTATTTAGAAATGTTCTCAGACTTTAAAAATAATGCACAGGGCTTGAGCTTTCTGTCAATTTGACTT
TAAAAGGAAGTTTCATTCAATTTATCCTCTTATGTAAAATTGCGGTATAAAGTCTCATTTCCAAATATGTTAAA
TGACAAAAATTATTTTATAAAATGTTTATGCACACTTTATAACCTTAAGTTTTATTTGAGAATGTGAAAGTACAA
AGTGCACTAGACTTCAACAATCTTGAGTGCCAAGAATAATACAGAAAAAGAAGACAGTTGATGAATGAGTTTATA
GGGTTCTAATCTTAAGATGGTAAAAATGTAGAAAGACCTTGCTGGTTTTTGGGGGTATTCGTTTCTTAAACAAT
CCAAATCTAAGCTTAGAAGAAAAGTTTTAGCGTTAAGCACCTTTATCTTCATGAATAAGCTTCAGCTTGCTCTTGG
CAAGAGAAGAGTGCTTGAGTTACAGAAGGCATAAGTAGTTTGAAGAATGCAGCAGCCTTTTTGTAACTTCCCAG
ATATCAAAATAGACTTTGATATATAAATGGTTTTCTGAGATGACACTGCCTCTATTTCTATAACCATTTACCTG
GACTATCTAACCAGTCCATGAATGTATCCCTAAATGTGGTTATTGAAAACCTAATAGCTGCCTCATGACAAGTA
CATGTTATTTAAGGAGGAAAAAATATTAAATTTGAATTGAGTGTGTAGGCTCCCTATCATTATATATAGAGTTT
CTTTTCCACGGTAGTCAGTGACTTAACCTGAATTGTAAATGTTTGTAAAGGGTTAATTGCTCCTACATCAAACCT
AGTTAAATAATTCCATCCACTTATGGAGGAGGAGGAGAATGTGGAAGAGGTAAAAAGCTGGGCACAAGTTCATAT
GCCTATGAGTCAGTAAAGACTGAAGTAATGTCTATGTTGAGCTGGTTATTTTGATATATGATAATAATTATCTT
TGAAGTAGAACAATCTGTTAACTGGAAAATCACAGGATATATCCATCATATTTTTCAGGACAGATAGTTTTTAC
TGTGGGGCAAATAGGTTAAATTACACTATGTTAGTTGCATTTAGGTTTTTAAAGCAAAGAATCTGTAGAGAAATC
TATGCAATATATAGTTTGTCCAGATTAGCTTTTCAATTTGGGGAATGAAGTTCTGAAATATCTAAAGCAGTTTACTC
ATCAATTGAAAAGTCTTCCAAAAAGAGAACTATTGGGAAACCATGGTGTGGTGGTGGAAAAGAAAAGCTCCCTCA
GTTTTTGGAGGGAATAACTTAAAAAATACTTAAATGGCTAAGTTTACTTGGTGCAGTTAAGAATTAACTTGT
CAATTTTAAACATTGCTGTTACATCTGAAATAAACTTATGTGATGTTCTGGT

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FIGURE 1442

MKGSRIELGDVTPHNİKQLKRLNQVIFPVSYNDKFYKDVLEVGE
LAKLAYFNDIAVGAVCCRVDHSQNKRLYIM
TLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLHVQISNE
SAIDFYRKFGFEI IETKKNYKRIEPADAHVL
QKNLKVPSGQNADVQKTDN

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FIGURE 1443

GCCGGGTGGATGGTACTGCTGCATCCGGGTGTCTGGAGGCTGTGGCCGTTTGTGTTTTCTTGGCTAAAAATCGGGGG
AGTGAGGCGGGCCGGCGCGCGACACCGGGCTCCGGAACCACTGCACGACGGGGCTGGACTGACCTGAAAAAA
ATGTCTGGATTTCTAGAGGGCTTGAGATGCTCAGAATGCATTGACTGGGGGGAAAAGCGCAATACTATTGCTTCC
ATTGCTGCTGGTGTACTATTTTTTACAGGCTGGTGGATTATCATAGATGCAGCTGTTATTTATCCCACCATGAAA
GATTTCAACCACTCATACCATGCCTGTGGTGTATAGCAACCATAGCCTTCCTAATGATTAATGCAGTATCGAAT
GGACAAGTCCGAGGTGATAGTTACAGTGAAGGTTGTCTGGGTCAAACAGGTGCTCGCATTGCTTTGCTTTTGGT
TTCATGTTGGCCTTTGGATCTCTGATTGCATCTATGTGGATTCTTTTTGGAGGTTATGTTGCTAAAGAAAAAGAC
ATAGTATACCCTGGAATTGCTGTATTTTTCCAGAATGCCCTTCATCTTTTTTGGAGGGCTGGTTTTTAAGTTTGGC
CGCACTGAAGACTTATGGCAGTGAACACATCTGATTTCCACAGCACAACAGCCCTGCATGGGTTTTGTTTGTGTTT
TTTACTGCTCACTCCCAACCTTTTGTAATGCCATTTTCTAAACTTATTTCTGAGTGTAGTCTCAGCTTAAAGTTG
TGTAATACTAAAAATCACGAGAACACCTAAACAACAACCAAAAAATCTATTGTGGTATGCACTTGATTAACCTTATAA
AATGTTAGAGGAACTTTTACATGAATAATTTTTGTCAAATTTTATCATGGTATAATTTGTAAAAATAAAAGAA
ATTACAAAAGAAATTATGGATTTGTCAATGTAAGTATTTGTCAATCTGAGGTCCAAAACCACAATGAAAGTGCT
CTGAAGATTTAATGTGTTTATTCAAATGTGGTCTCTTCTGTGTCAAATGTTAAATGAAATATAAACATTTTTTAG
TTTTTAAATATTCCGTGGTCAAATTTCTTCTCACTATAATTGGTATTTACTTTTACCAAAAATTCTGTGAACA
TGTAATGTAAGTGGCTTTTGAGGGTCTCCAAGGGGTGAGTGGACGTGTTGGAAGAGAGAAGCACCATGGTCCAG
CCACCAGGCTCCCTGTGTCCCTTCCATGGGAAGGTCTTCCGCTGTGCCTCTCATTCCAAGGCGAGGAAGATGTGA
CTCAGCCATGACACGTGGTCTTGGTGGGATGCACAGTCACTCCACATCCACCATTGAAGGAAAGGAAAAAAGGGC
AGAGACTTGACACTCCAGTCTTAGACAGGGGACAATTTCTTTGTAGTTGTTCTGATAATAAACTGGGTTCCATGT
TGCATTTCTATCTGTGTACTGAACCACTAGCCTAATAGACCAGCACGGTCAACTAGAATGACAAACATTAGCTACT
GGGAACCTTGTGTCTCTTCTCTTCCAGAACTCTTGTCCCCCAGGCTCCCCACCTCTGCAAGATGGGATACAC
TCTTCAGGACCACAGTTTGAAATGTCTTTTATAAAATGTGCTACAATTAGCCTTCGGAATATTTGCTGGGTGATT
TAAATGTGTGGGTCTCATTTCCATGCTAGCCATGGTCATCTGACAGTCTCTACGCTGTGAATATTGCCTGGTGAT
CAAGACTCTCCTCAAAGAAATGACTTGCTGTCTATCCCACATGAACTCCTGATGTTTTTTCTACAAAAGTCCATAA
AATGTGAAAACCTGGAGAAGATCTTAGAGGTTGAAGCCACCTTCTCTTTTACATAGGAGGGAACAGACCATGGA
AATTTAAACGACTTCCTCACGGTCACAGAACTAGTTTTTTAATCCTCAGGCAGTGCATCCCCCACCCTACAAC
GAGCACAACCTCTTTCCCCACAGTGCAATTCAGAAATATGCTCAGGGAATGCCAGCCACCTTGTAACCTGCTGGG
AGAAAAGCATGATTCCCACAAGGACTAAGTATCAGTGATTTGTAATTTTCTGTTTTGTATTATCTGCTTTGCTG
ATGTAGACAAGAGTTAACTGAGTAGCATGCTTTATTAAGCATGAGAAAGAATCTTAAGAATTGTCAATAAAATTA
ACCCAAAACCTTTAATAATGTGTCTGTAACCAAGAAAAATATTGATAGCATCATCCTAATGAACTAAACATTTATT
TTAAACTTATTAAATTGACTCTTAACTAAAAAA

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FIGURE 1444

MSGFLEGLRCSECIDWGEKRNTIASIAAGVLFFTGWWIIIDAAVIYPTMKDFNHSYHACGVIATIAFLMINAVSN
GQVRGDSYSEGCLGQTGARIWLFVGFMLAFGSLIASMWILFGGYVAKEKDIVYPGIAVFFQNAFIFFGGLVFKFG
RTEDLWQ

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FIGURE 1445A

CACCATTGAGCTGTTTTCCCTTGATGGCCACATGATTCTAGCATTTTTTTTTTTTTTGGTCAAAATATTCCCGGT
TCTGTAATAATTTTCATTTTTAAATTAAACGGTGATGGATGAGCTATCATAATCCAAGTATACTTTTCTTTTTTCT
ATCAGATATCCATGGTCATGCAGTAGTAGTAAAAACATCCAAAGATGCCAGCAAGCCTTATTAAGTATTATTTTC
CTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTACTTTTGGTTATGCAAAACACTTTGATAATATAAACAG
TTATGTCCCTATAAAATCTGGTCAGCAACCTCTTTTGATTTTGTGGGTAAGTTAAATAGTCTGTAGTAGGTAGA
GTACTGGGTACAAGTGGTCCAAACTAAGATAAGAGACTAAAATAAAATGCTAAATCTTAAAAGAACTGGGTTTA
TGCATAAACGTTTTGTGCCCTGGTCTAATATTAACATGATGTATGTGTNNNNNNNNNNNNNNNNNNNNNNNN
NCCAGTGTTGAATCATGCTATATTTCCCATCATCCAGATTGCTAAATGTTCTTTCCAAGAAGTCTGAATGAATT
ATTATATACATTTGCTATCATACATGACAGTTGTGTCTATTATTAGAGATTTTCTAGTAATTAAAATGGGAAACAGAA
GCCTAAGTTATTTTACCTTATCAAAACCACGTTTCTTGGGAACCACATTATTATGATGGTTTTTGTGCTCTTGTACG
TTGGATGTCTTAAAGCTGAGTACAGTTTAGGGGATCCTTTCTAATGACAGGAAGGCACTGCTTTCTCAACACTGT
GATCTGACCTGTGACAAGTCTGTACTATCCACTATGTAAATGGCTCACAAGTCAATTGCAACAAACTGAATGTA
CAAACTCTTAGTGCTGGTGCTGAAATCTCTTCAGAATAGTCATCATGATTTAAAAGTTTGTTTAAAATTTGCAAG
CATCAAGTGTCATCAAAACTGAAGATGAAACACTAATGAATGTTGAATTCTCATGCTTTTAGGTGTACTTCCTT
TTTGAATTTTTCAGTTTTCTGCTATTTTTACCGTAACTATTTTCGTTTAAATTTGTTTCATTTAAGTTTCCTACAT
GCTAACTTCGTTTGTGCGATTGAAATAAAATTGCAGTATATATATGTTGCTTGTGTGACACTTAGATAATCTT
CTGAAATAATTTGTTTAAAGTAAGTTATATTGGATGTGAAAAACACCTTTTAAAGTCCAAGACTTTACTACTTA
AAAGTTACATGTCACGTCCTATTCTTTACAGATTTCATAGAAGTCGTGAATACTAAGTAATGTATACAAAAGA
AATATGTGATGATGTGTCTACTTTTTGTTTGAATAACTGTTGGGTGTTCCCTCTCTTATTTTTCTCTCTGCCCA
CCTTGACACAGTAACTTCCTCTTATAGTCAAGATGATGATTAAGTGTTTAAATTTTTATTCCATTTTGTCTGCAA
CACGTTGAGATACTTAAAACCTCATTGATGAGTTAGAATTATCCTTTATGTAGTTTGCATGGTAAAGGACATTGT
GTGGTAAAGGGCATTATTGAGTAATGAATTTTAAAGTATAGCAAAATATGTATAGTGTTTATACATGATGCTGATT
TCTTAAACCTACATATAAGCAGTAGTACTTTTTCTCTATTATAAAGTATTAATTTTGAGTTCCATTTTATAATT
CTGATGTCTTCATTAGAAATACAAAATACAATCCTTGATTTTTTCTTTGACCAGACCCAAATTTTCCCTTCC
CCCTCCATTCTCTCTCCACTTCTCGTGACCGCGTGTTCCCAATATTCATTAAACATTGTCAGCCATTACAGAG
TTACAGTTGTAAAATTTTTCAGCTGTTTTTTTTTTTTTGGCTCTAGCCTGTCTCATGTTCTTGCTTCTCTCATATGT
AAGTCAGTATTTTTGTCTACAAATTAAGTCACTTGTCTATTCAAAAATGAGTTAAGTAACATGATAATCTTTTA
AATTTACCTAGCTACAACTTTTATGTCTCTTGTAATTTATATATACTTTTTCAGTGCCATTGTGAAGAATTGGCCT
TTTAATTTCAAGTAGTATTACCCTATGAAGCACAGTGTGCAAGGTATGCTACAAGGCTCTTTTAAATTCCTGTGT
GGCCATTATAATTTTATAACACCATTACCCTTTAAATTTTACCATTATAAGCAGCGTAAAAGTAAGTATATAAA
GCAACATCGCAAAGGAAGTCTGCAGGAGCTCTTAATTCCTTTATGTAGCTATCATAAAATTCACTTTCTGAAAG
ACATTTACTCTCATTCACTTCCAACTCCAAACCTTTTTCTGGTAGCACCACCTTTTGTTTTTAATAGAAAGATGA
GTTTATATCTGTACATCTCTCCAAAGCTCTAAGGAATGAGAAAAGGATCCTAGTATATTGAAATTACTGATGTTT
AATACCTCTGCCTTTTTCACTAAAAGCCATTTAATATTTTTTAAAGTCAAACTTGACATACAGGTATTTATAAGGA
ATCTCCATGACTCTGAAGGAATGAAATTGATGTAGGTAGCTTTGGCTATGTAAAGACATAGTAGAGGACAATTAC
TTAAAGAAGAGTTTTTCTTTTGAGGATTTGTAGATTTGACTAAGCAGCTGAAGTCAGTAACCCCTCAAGAAAGGCC
GTTTATAGAAGCCAAGAACTGTTGGAGGTCTGTGATGCAGGTTTTTCTGTTCCCAACATCAAAAGCTGTGGATTA
TTTGGTGTGTCCCTTTTATGTTATCTCTCGATAATTTTTTGAAGCATCAAGATTTTTTAAAATATCAATACTGGAA
AGATGAAAACCTTCAAAATTAACCTAAAATTGATTAGAAAGAAAAGTAAAATATTAATGCAGTAAATTTAGGATG
GTTACAGATACTCACCATCAACATAAAATAAATGGAGTTCTAGGATAAATTATTTGTGGAATACTAATGGTCAAGT
CACATAAGAGTAAAATCTTTTGGTGAGGAGACACATTTGACAACCTGCTAAAGAATTAACATAATTTGTCTTTCTA
AATAGTTTTCTTTATAAGTAACAGAAACATTGTAAAAGGATAAATAAATGACTGTCATAATGACTTAGGATGTT
GTAAGAATGTCTGCCACATTTATTGGTTATTTCTGTTGAAATCTGAAGGAATCGATACATCTGAAAATTGAGAAA
GGGAAATAGGACTGTCCCGTTACAGATACTCTGTGATGCACACAACCTTCTAAACGGAAGTGTTAGTATCATTT
AAAGCACATAGTAGGCCTTGAGTATTTGCAGATTAACATGCAGAAAAATCAAAGATGAAGCCCCAATTAAGTGT
TTGAACCAAGAATCACAGTCACTGAGCTGCACCCCGTTCTGTGAAGCATGTTAAATACTCATAAAGAGCAGAG
AGCAGGGCCCGTAGACGCTTCTGGTGTAGGACACAGGAATTCTAGGCAGAGGGAGAAAATTAGGGGCCCCAGTTG
GTGGCTGAGAGTAAAAAGAATATACCATTTGAGTAGTGCTGTTCTTTTTCTCAGTTTTTAAAGACATATAATTC

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FIGURE 1445B

CTAGTAGTTAGGACATCTAAATAGCTCGGTAAACTGGTCAG

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FIGURE 1446

TIEFSLMAT

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FIGURE 1447

GCAGTCCAGGCTGGACTGGGCGGCATTTGCCGAGGCTCCTCGGCCAGGCCCCGTCCGCCCCGAGCCGCGCTGAGAG
GGCAGCGGCCCGCTGGAGAGGAGGTGGCAGCGGCCGGGAGCGATGCCAAGCCAGCGACCCACCATGGAGACCCGC
TACAACCTGAAGAGTCCGGCTGTTAAACGTTTAAATGAAAGAAGCGGCAGAATTGAAAGATCCAACAGATCATTAC
CATGCGCACGCTTTAGAGGATAACCTTTTTGAATGGCACTTCACGGTTAGAGGGCCCCCAGACTCCGATTTTGAT
GGAGGAGTTTATCACGGGCGGATAGTACTGCCACCAGAGTATCCCATGAAACCACCAAGCATTATTCTCCTAACG
GCTAATGGTCGATTTGAAGTGGGCAAGAAAATCTGTTTGAGCATCTCAGGCCATCATCCTGAAACTTGGCAGCCT
TCGTGGAGTATAAGGACAGCATTATTAGCCATCATTGGGTTTATGCCAACAAAAGGAGAGGGGAGCCATAGGTTCT
CTAGATTACACTCCTGAGGAAAGAAGAGCACTTGCCAAAAAATCACAAAGATTTCTGTTGTGAAGGATGTGGCTCT
GCCATGAAGGATGTCCTGTTGCCCTTTAAAATCTGGAAGCGATTCAAGCCAAGCTGACCAAGAAGCCAAAGAAGCTG
GCTAGGCCAAATAAGCTTTAAGGCAGAAGTCAATTCACTGGAAGACTATCTCTGAGTCAGACTTAAACCACTCT
TTTTCACTAACTGATTTACAAGATGATATACCTACAACATTCCAGGGTGCTACGGCCAGTACATCGTACGGACTC
CAGAATTCCTCAGCAGCATCCTTTTCATCAACCTACCCAACCTGTAGCTAAGAATACCTCCATGAGCCCTCGACAG
CGCCGGGCCCAGCAGCAGAGTCAGAGAAGGTTGTCTACTTCACCAGATGTAATCCAGGGCCACCAGCCAAGAGAC
AACCACACTGATCATGGTGGGTGAGCTGTACTGATTGTCATCCTGACTTTGGCATTGGCAGCTCTTATATTCCGA
CGAATATATCTGGCAAACGAATACATATTTGACTTTGAGTTATAATATGTTTTGTGACTTATGAGCTGTGACTC
AACTGCTTCATTAAACATTCTGCATTGGGTATAATCTAAGAATTGTTTACAAAAGATTATTTTGTATTTACCCT
TCATTCCTTTTTTTGATCCTTGTAAGTTTAGTATAAATATATCTAGACATTCAGACTGTGTCTAGCAGTTACGTC
CTGCTTAAAGGGACTAGAAGTCAAAGTTCCTTGCTCTACTATTTGATCTGCTTTCAGGGAAATAACTTGTTTT
TCTCATGTTTCATCTTCTTTTTATGTAAATTTGTAATACTTTCTATATTGCCCTTTGAAATTTTGGATAAAAG
ATGATGTTTTAAGTTCCAATGAGTATTACTAGTTACTCAATACCACTTATTGAGTACTCTGTTTCTACGTATGTA
GAATGTATAGGGATAGAAGAGTTGAAAAGGGAAAGCAAACTCCTCAAGTAGCTTCCTTAAAATGTCATTCATAG
GAGATGTACTGGAATTGCTCATTCTGTGACTTTATTTGTGTCCTAAACATTCTTCAGTGAAAATAATTTTATTTT
AGTCAAACATTTATGAGGAAATGAGATCACATCTTTGTCACTGGATGCTACTTGAAGAGGGAGTACTTTGTAACC
ACTTTGATATGCTGTTATCACCACCCCCTGCCCTCTGCTGCCATAATCACACAAATTTAAA

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FIGURE 1448

MPSQRPTMETRYNLKSPAVKRLMKEAAELKDPTDHYHAHALEDNLFEWHTVRGPPDSDFDGGVYHGRIVLPPEY
PMKPPSIILLTANGRFEVGKKICLSISGHPETWQPSWSIRTALLAIGFMPTKGEGAIGSLDYTPERRALAKK
SQDFCCEGCGSAMKDVLLPLKSGSDSSQADQEAKELARQISFKAENVSSGKTISESDLNHSFSLTDLQDDIPTTF
QGATASTSYGLQNSSAASFHQPTQPVAKNTSMSPRQRRQQSQRRRLSTSPDVIQGHQPRDNHTDHGGS AVLIVI
LTLALAALIFRRIYLANEYIFDFEL

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FIGURE 1449

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCTCGTTGTCCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACCATGAAAGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCCTATGAACCCAAGTGTGGTTGGAGTTGATGTGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACTTAAATCTACTAAT
ATTTTCATTTACAAACATGGTTTCAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAA
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGGCCGAGAAGCAATGGAATGGGTAATACATAAAATTAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGACAGAGAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAAACTTGACTATATATTTTATTTTGTATTTTAAAAATAC
AACTATATTTTGGGTAGTTTTTTTTTTTTTTTTTTTTTTTGATAAGTTGGTGTAAGGCIATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAAGGGATCATCTGAAATTAATGTTGTTTGAAATTACTATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAAATTCACAAGAAGTCTTGGAAACTGGTATTGATATTCAGTCTCCTTAAGGTAGATTTT
TCAAGCTTTTTCATACATTGGAAGTCCACCTGACTTTGGACCAACCCAGAACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTTGCCCTGCTGCTGTACACTTCAGCAGCTTGACAAGGGAGCTCACTTAAAAGGAGAAATGTGTAGTT
TTAAATATATTTTGTGTAAATACCTTACTATGCTATAAACCACCATTAAAAACCAGTGTTTTGATTTGGTACT
TAAATATTTTGGAGTGAAATTTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAAGTTAGTAAAGGTATTAACCTTCCTTGGATTTGTACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAATAAAGTCATTACCTGAGTTTGCAGTGCTCTAACTTA
AACAGAAGAACAGCTGTTACATCTTTTAGCATTTTACATTTGCCTAACTTAAAATTGCCATGTGTCAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTTGAAATTACTCAAATGATGTCTTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTAATAATATGGTGCCACTGCAGGATTTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGCCCTGAAACTAACCCTGAGTGAATTGCACTGCAGGTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAAGTACTAAATAATAGCTTTGACATTTGCAATTGTTGCATAGAGACTATTTTGTAGAAAGATGATTAGC
TCTTGCTTTTATTTTACAGTGCTTAGTGTGATAAACTTCTAGTCATGTTTCTATCCAAGAGACCAGTTAATATA
TGTACATAAACCACAGAAATAGTATAACACACTATTTTAAATTATCGTTTTCTACTTAAATTTTGTTTAGCTT
AAGACTTCTTAGGACATTTGTAAGAGCAGGTTAAATTTAATAAGGTTTCTGATTTTTTTTTTGTAAACCGGAGATAG
TTTTTACAAGTGAAATAACATTTAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTTCTGAAAAAGGTGTAATGCCCTAATATTTTAAATCCTTATCCTTTGATT
TTTTTAAAACTGACCTATTGATAAACTATAAATTTTCAATTTCCAGTGCAGTTAGTTACCTTTTTTAAACATAAA
TGCACAACAAGCAAAATGAATTTAAGAGAAGTAACTGGAATAAGTGTTTATAAATGAAACCCTTGGACTATTTAA
TAAAGTTGAAATGTGAATTAAGGAAAACCTTTTGTAAATAAAACTTTCTTTTAAAAA

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FIGURE 1450

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLDLRHIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

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FIGURE 1451

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCCGCCGCTCGTCCGTCTCCCGT
CCGTTCTCGCTCCCGGCCGCCATCATGCTGGCGCTCATCTCCCGCCTGCTGGACTGGTTCGGTTCGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTTCAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACATAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTTGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCTTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTTCAGCATTCAAAATCTAGAAGAAGCTGAGCATCTCTTGAAGT
CTTCCAGTCCCTTCTTGGCTATAATCCTAGAATTATTGTCCGTTCCCTCTGAAGTAATTCCAGAAATACGGTCCCTTC
CTAAACCCAGAAATTCCTTTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCCTTC
ATAAAGAATCAGCTAGAGTTGTCATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTTATATTGGTTTTTCAGTAAATGTCTATCTATAATATTTT
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAAGATATCCTGCTTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAACATAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCTGGTTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTTAGAGCATT
CCACCCAATATAATAAAACCTGTTAAGAATGTGAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGCTGCTGCATGACACTCTTAACCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTCAGCACAAAA
GATACTTATAAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACCTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAATAATCAGTCACACAGAGAACTGAGGAAGTATGCTGTTTGTGTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTCATATAGACCACTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTTCCTTTTGTAAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTTGCTTTTTCTCCATTCAATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAAACTTGCTACTGTTGTTCAACACCATTAAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTAAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGCTATACATTGCTTTCCGCATTTCAAGACATCCAGACGCTATTACCA
ACATTTTCCGTGTGCATTAACCTCTGCATGTGAAAACCTTTTAAACAGTTACTGAACTATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCATAAACTTGCATTTTAAAGGT
TGTATTGGCAATTTTAACTTAAAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGGAAAGTTTCCGAGAGGAGG
GTCTATAGACCAATTTGTGAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAATAGAAATAA
ACTTTTAAATATCCACAG

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FIGURE 1452

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLFPNALDEKQLIEKMNLS
AIQDREICCYSSISCKEKNIDITLQWLIQHKSRRS

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FIGURE 1453A

GTCAATTGCCCTTTAGTCCCAGGACTAACC GGAAGCTTCTGCAACAGGAGGACATTGAAAATAAGATGGAACCCA
TCCACATAAGGATTTGCCTCAAAGGGCACTGCAAAAATTGAACAGAGGAATCCCAAGGAAGCTGCCTGAATTTGC
CTGTATACTCTCGTTCTGCGACTTATAAAGGACCAGACAAATCAAATTAGTGGTTTTGGTTTTCCGCCAGCTGTGG
ATGCCCTTTGACATTATGACCGCAGAGGATTCCACCGCAGCCATGAGCAGTGACTCGGCCGCCGGGTCTCTCGGCCA
AGGTGCCCCGAGGGCGTGGCGGGCGCGCCCAACGAGGCAGCACTGCTGGCGCTGATGGAGCGCACGGGCTACAGCA
TGGTGCAAGAGAACGGGCAGCGCAAGTACGGCGGCCACCGCCCGGCTGGGAGGGCCCCGACCCGACGCTGGCT
GCGAGGTCTTCGTGGGCAAGATCCCGCGCGACGTGTACGAGGACGAGCTGGTGCCCGTGTTCGAGGCGGTGGGCC
GCACCTACGAGCTGCGCCTCATGATGGACTTTGACGGCAAGAACC GCGGCTACGCCTTCGTATGTACTGCCACA
AGCACGAGGCCAAGCGCGCAGTGCGTGAGCTCAACAAC TACGAGATCCGCCCGGGCCGCGCTGCTCGGCGTGTGCT
GCAGCGTGGACAAC TGGCGCTCTTCATCGGCGGGATCCCCAAGATGAAGAAGCGCGAGGAAATCCTGGAGGAGA
TTGCCAAGGTACCCGAGGGCGTGTGGACGTGATCGTCTACGCCAGCGCGGCCGACAAGATGAAGAACCGCGGCT
TCGCCTTCGTGGAGTACGAGAGCCACCGCGCGGCTGCCATGGCTCGCCGCAAGCTCATGCCTGGCCGCATCCAGC
TGTGGGGCCACCAGATCGCCGTGGACTGGGCCGAGCCTGAGATCGACGTGGACGAGGACGTGATGGAGACCGTGA
AGATCCTCTACGTGCGCAACCTCATGATCGAGACCACCGAGGACACCATCAAGAAGAGCTTCGGCCAGTTCAACC
CCGGCTGCGTGGAGCGCGTCAAGAAGATCCGCGACTACGCCTTCGTGCACTTCACCAGCCGCGAGGATGCCGTGC
ATGCCATGAACAACCTCAACGGCACTGAGCTGGAGGGCTCGTGCTGGAGGTCACGCTGGCCAAGCCCGTGGACA
AGGAGCAGTACTCGCGCTACCAGAAGGCAGCCAGGGCGCGCGCGGCTGAGGCAGCGCAGCAGCCAGCTACG
TGTACTCCTGCGACCCCTACACACTGGCCTACTACGGCTACCCCTACAACGCGCTCATTGGGCCCCAACAGGGACT
ACTTTGTGAAAGTAGCCATCCCTGCCATTGGGGCTCAGTATTCATGTTTCCAGCAGCTCCAGCCCCCTAAATGA
TTGAAGATGGCAAAATCCACACAGTGGAGCACATGATCAGCCCCATTGCTGTGCAGCCAGACCCAGCCAGTGCTG
CTGCCGCCGAGCCGCGGCCGAGCCGCCGAGCCGCTGTCATTCCCACTGTGTGACGCCACCACCTTTCCAGG
GCCGCCCAATAACTCCAGTATACACGGTGGCTCCAAACGTTT CAGAGAATTCCTACTGCCGGGATCTACGGGGCCA
GTTACGTGCCATTTGCTGCTCCAGCTACAGCCACGATCGCCACACTACAGAAGAACGCGGCAGCCGCGGCCGCCG
TGTATGGAGGATACGAGGCTACATACCTCAGGCCCTCCCTGCTGCTGCCATT CAGGTCCCCATCCCCGACGTCT
ACCAGACATACTGAGGCTGGTGACCAGCACGAAGACAGACCACACAAACACCACTGAAGGAACGCTTGACTATTT
ATGAAGAAGGAACATGTTGGATTACACATGCAACCTGAAAGTGAAGAATGTTAGCAGATTTATTTCTGAATTAT
TTTATATACATGAAGTTTTTCACTAGTTTTTTAAGACTATTTTCAACTTAGCATGCCTACGTTACATATTTCCAA
AAGACTTGCAATGGTTTCGTGCCTTCATTCCATCTTTTAAAAATTTGTATGCTGTACTACATTTGTATAGAGGTTT
TTGTTGTTGTTTTTTTTAAGGATATATTTTCAGTATGAAGGTTATTTTCTTAACCTTCTGCCTCCAGAGATTTCTA
TTTTGTAGTACCTTCAATAATATATCAACTATATATTAATAAAGCACACTTGAGGAGCTAGGGAATATTTTGAA
AAATATATACAATATTTAAAGATACAAACAGTAGTGCTTAAAAATACTACATAAAGCATTATTTTAAAGGTTATA
CTGGAAAGTGCAATTTTAAATGAGTAAACCTCTGTATTTCTGCTGGCATTAAAGGTTGATGGTGTACCATGT
ATCATCATGGCGGTACTATTTTTTAAAGAAATTAACACTGGATCTCTCCTTAAGCCAACATTGAAAAGACTTG
CCGCACTTCTGAGTCCAAACACTGGAAAGCTCTCCTTGCCACCGTTAGCCGGGGCTCATTCTCCATGTGCCTTAG
CCTTAAACATGCCCCACTCCACATCTCTCACCCTGTCCCCCTCCTCCCAGATTCCCAATCCCACCGCAATGTT
TGGCAAGCCTAGGACTGATAAGTAGCTCTGATAGAGGAGCTGGTGGCTTTTATACTTCTTCTGGGTTTTTGTG
GGGTTTGTGTTTCGTTGTTTTTTTTGTTTTTTTTTGTGTTGGTTGGGGAAGTATTGTCTTCTACGTGTGCTATTTT
CAGTAGCAGAGTAAGCACAAGGTTTTTAATCGAGTTGCATAAGACACCTTTGCATAGCTATTTAATTGCCCAATGT
AAAACTTTAAATGCCATTTCTAATGCTTTTATTCATTTTTGAAGTATGAGTTTGTAGGGACAAAGAATGTATGTTA
TCGTAGACAAGACCCCGAGAGACTCTTTTCAGCAGAAAGTTATGCTTCTAGTTGCCTTACCATGTTTCTTGCAAA
ACTGTCCATGGTCTCAAGGGTGTGGAAACATTATGTTTATTAATGGGCCTCTCTCCTTTGCTGTGCACTTG
ATGGGTGAAC TGGATTGGGGTGTGCACATCCAGGAGGAGGAGAGACCTGTAGAAGTTTAAAGATAGTTTGTA
AATATCTTCTAATGCTTGTTTTTAGTCCTTTTATGTTGGAGAAGTTCATGGTATGTAGTTTAAATGCAAAATGAAA
CCATTTTATTTCAATGTTATTAAAAAGGTTTGTGTTTATTAGGAAGTTAATGTATTGTTGCAGTGTTTTGTGCCTG
TTTAAAGGCTTTTGTGTTAGCAGAGTGAATGTAAATACAGTAAATGTAAAGATTGTCATCTACTTTTTAAAAAA
AAATATCAACTTGGAAATGTTTTTTAAAGGCTCAATCAAGGAAGTGAGGTGTGCAATAAGGTAGCAAGTAAACG
CAGTTGCGTTTTTATGTCATGTTAGAGATCCATACAATTTTCCACTCACGGGATTTTTGTTGATGGCTGAATTTCT
TGTGGATT CATAAGAGGATCATGCCCTTAGCAAGTACTTTTGTGTTTTGTTTTAAATTAAGAGATTCCCAATGCCT

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FIGURE 1453B

TTTCCCCCTCATCTTGAAATGAGATGAGTTTTTATGTGTAAGCAATATTTATTTAACTATTCTATAAAATTATT
GAGTGCCTACTGAGGCCTTTAAGCACCGCTAACATTCTTTCCATCATTCTTTGAATGACATAAAATAATTGTG
CAATGTTCTGATGATGTACCCACAGCTGCATTCAAACCTCAAATCTGTGGGAATGAGTGAAGGATTGTCACAGAGTTT
ATTCGGATCAGATCCTCATCCCCTGACTGTGTGAAAAAGTACTCTCCTTCTAGTGAAGGATTGTCACAGAGTTT
CACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACATGTGCCTGTAAATTATTTTGCCGAAATAAGAA
GAAGAAGAGGAAGAAAGAACAGTAGAAAAAAAAAATAAAAAAAAAA

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FIGURE 1454

MTAEDSTAAMSSDSAAGSSAKVPEGVAGAPNEAALLALMERTGYSMVQENGQRKYGGPPPGWEGPHQPGCEVFV
GKIPRDVYEDELVPVFEAVGRTYELRLMMDFDGKNRGYAFVMYCHKHEAKRAVRELNNYEIRPGRLLGVCCSVDN
CRLFIGGIPKMKKREEIILEEIAKVTEGVLDVIVYASAADKMKNRGFAFVEYESHRAAAMARRKLMPGRIQLWGHQ
IAVDWAEPEIDVDEDVMETVKILYVRNLMIETTEDTIKKSFGQFNPGCVERVKKIRDYAFVHFTSREDAVHAMNN
LNGTELEGSCLEVTLAKPVDKEQYSRYQKAARGGGAAEAAQQPSYVYSCDPYTLAYYGYPYNALIGPNRDYFVKV
AIPAIGAQYSMFPAAPAPKMIEDGKIHTVEHMISP IAVQDPASAAAAAAAAAAAAAAV IPTVSTPPPFQGRPIT
PVYTVAPNVQRIPTAGIYGASYVPFAAPATATIATLQKNAAAAAAVYGGYAGYIPQAFPAAIQVP IPDVYQTY

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FIGURE 1455

AGACGGAAGTGC GGGCGGAGGATCCCCAGCCGGGTCCCAAGCCTGTGCCTGAGCCTGAGCCTGAGCCTGAGCCCCG
AGCCGGGAGCCGGTCGCGGGGGCTCCGGGGCTGTGGGACCGCTGGGCCCCCAGCGATCGCGACCCTGTGGGGAGGC
CTTCTTCGGCTTGGCTCCTTGCTCAGCCTGTGCTGCCTGGCGCTTCCGTGCTGCTGCTGGCGCAGCTGTGAGAC
GCCGCCAAGAATTTTCGAGGATGTCAGATGTAAATGTATCTGCCCTCCCTATAAAGAAAATTCTGGGCATATTTAT
AATAAGAACATATCTCAGAAAGATTGTGATTGCCTTCATGTTGTGGAGCCCATGCCTGTGCGGGGGCCTGATGTA
GAAGCATACTGTCTACGCTGTGAATGCAAATATGAAGAAAGAAGCTCTGTCACAATCAAGGTTACCATTATAATT
TATCTCTCCATTTTGGGCCTTCTACTTCTGTACATGGTATATCTTACTCTGGTTGAGCCCATACTGAAGAGGCGC
CTCTTTGGACATGCACAGTTGATACAGAGTGATGATGATATTGGGGATCACCAGCCTTTTGCAAATGCACACGAT
GTGCTAGCCCGCTCCCGCAGTCGAGCCAACGTGCTGAACAAGGTAGAATATGCACAGCAGCGCTGGAAGCTTCAA
GTCCAAGAGCAGCGAAAGTCTGTCTTTGACCGGCATGTTGTCTCAGCTAAATTGGGAATTGAATTCAAGGTGACT
AGAAAGAAACAGGCAGACAACTGGAAAGAACTGACTGGGTTTTGCTGGGTTTCATTTTAATACCTTGTTGATTTT
ACCAACTGTTGCTGGAAGATTCAAACTGGAAGCAAAAACCTTGCTTGATTTTTTTTTCTTGTTAACGTAATAATA
GAGACATTTTTTAAAGCACACAGCTCAAAGTCAGCCAATAAGTCTTTTCCTATTTGTGACTTTTACTAATAAAAA
TAAATCTGCCTGTAAATTATCTTGAAGTCCTTTACCTGGAACAAGCACTCTCTTTTTTACCACATAGTTTTAACT
TGACTTTCAAGATAATTTTTCAGGGTTTTTGTGTTGTTGTTTTTTGTTTGTGTTTGGTGGGAGAGGGGAGGG
ATGCCTGGGAAGTGGTTAACAACTTTTTTCAAGTCACTTTACTAAACAACTTTTGTAAATAGACCTTACCTTCT
ATTTTCGAGTTTCATTTATATTTTGCAGTGTAGCCAGCCTCATCAAAGAGCTGACTTACTCATTGACTTTTGCA
CTGACTGTATTATCTGGGTATCTGCTGTGTCTGCACTTCATGGTAAACGGGATCTAAAATGCCTGGTGGCTTTTC
ACAAAAAGCAGATTTTCTTCATGTACTGTGATGTCTGATGCAATGCATCCTAGAACAACTGGCCATTTGCTAGT
TTACTCTAAAGACTAAACATAGTCTTGGTGTGTGTGGTCTTACTCATCTTCTAGTACCTTTAAGGACAAATCCTA
AGGACTTGGACACTTGCAATAAAGAAATTTTATTTTAAACCCAAGCCTCCCTGGATTGATAATATATACACATTT
GTCAGCATTTCCGGTCGTGGTGAGAGGCAGCTGTTTGAGCTCCAATGTGTGCAGCTTTGAACTAGGGCTGGGGTT
GTGGGTGCCTCTTCTGAAAGGTCTAACCATTATTGGATAACTGGCTTTTTTCTTCCTCTGTCCTCTTTGGAATGT
ACAATAAAAATAATTTTTGAAACATCC

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FIGURE 1456

MATLWGGLRLGSLLSLSCLALSVLLLAQLSDAAKNFEDVRCKCICPPYKENS
GHIYNKNISQKDCDCLHVVEPM
PVRGPDVEAYCLRCECKYEERSSVTIKVTIIYLSILGLLLLYMVYLT
LVEPILKRRLFGHAQLIQSDDDIGDHQ
PFANAHDVLA RSRANVLNKVEYAQQRWKLQVQEQRKSVFDRHVLS

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FIGURE 1457

GAGCAACCTCAGCTTCTAGTATCCAGACTCCAGCGCCGCCCGGGCGCGGACCCCAACCCCGACCCAGAGCTTCT
CCAGCGGCGGCGCAGCGAGCAGGGCTCCCCGCCTTAACCTTCTCCGCGGGGCCAGCCACCTTCGGGAGTCCGGG
TTGCCACCTGCAAACCTCTCCGCCTTCTGCACCTGCCACCCCTGAGCCAGCGCGGGCGCCGAGCGAGTCAATGGC
CAACGCGGGGCTGCAGCTGTGGGCTTCATTCTCGCCTTCTTGGGATGGATCGGGCGCCATCGTCAGCACTGCCCT
GCCCCAGTGGAGGATTTACTCCTATGCCGGCGACAACATCGTGACCGCCAGGCCATGTACGAGGGGCTGTGGAT
GTCTGCGTGTGCGCAGAGCACC GGCGAGATCCAGTGCAAAGTCTTTGACTCCTTGCTGAATCTGAGCAGCACATT
GCAAGCAACCCGTGCCTTGATGGTGGTTGGCATCCTCCTGGGAGTGATAGCAATCTTTGTGGCCACCGTTGGCAT
GAAGTGTAAGTGTCTGGAAGACGATGAGGTGCAGAAGATGAGGATGGCTGTCATTGGGGGTGCGATATTTCT
TCTTGCAAGTCTGGCTATTTTAGTTGCCACAGCATGGTATGGCAATAGAATCGTTCAAGAATTCTATGACCCTAT
GACCCAGTCAATGCCAGGTACGAATTTGGTCAGGCTCTCTTCACTGGCTGGGCTGCTGCTTCTCTCTGCCTTCT
GGGAGGTGCCCTACTTTGCTGTTCTGTCCCCGAAAAACAACCTCTTACCCAACACCAAGGCCCTATCCAAAACC
TGCACCTTCCAGCGGGAAAGACTACGTGTGACACAGAGGCAAAAGGAGAAAAATCATGTTGAAACAAACCGAAAAAT
GGACATTGAGATACTATCATTAAACATTAGGACCTTAGAATTTTGGGTATTGTAATCTGAAGTATGGTATTACAAA
ACAAACAAACAAACAAAAAACCCATGTGTTAAAATACTCAGTGCTAAACATGGCTTAATCTTATTTTATCTTCTT
TCCTCAATATAGGAGGGAAGATTTTACCATTGTATTACTGCTTCCCATTGAGTAATCATACTCAAATGGGGGAA
GGGTGCTCCTTAAATATATATAGATATGTATATATACATGTTTTCTATTAAAAATAGACAGTAAATACTATT
CTCATTATGTTGATACTAGCATACTTAAAATATCTCTAAAATAGGTAAATGTATTTAATTCATATTGATGAAGA
TGTTTATTGGTATATTTTCTTTTTCTGCTTATATACATATGTAACAGTCAAATATCATTTACTCTTCTTCATTA
GCTTTGGGTGCCTTTGCCACAAGACCTAGCCTAATTTACCAAGGATGAATTCTTTCAATTCTTCATGCGTGCCCT
TTTCATATACTTATTTTATTTTTTACCATAATCTTATAGCACTTGCATCGTTATTAAGCCCTTATTTGTTTTGTG
TTTCATTGGTCTCTATCTCCTGAATCTAACACATTTTCATAGCCTACATTTTAGTTTCTAAAGCCAAGAAGAATTT
ATTACAAATCAGAACTTTGGAGGCAAATCTTTCTGCATGACCAAGTGATAAATTCCTGTTGACCTTCCCACACA
ATCCCTGTACTCTGACCCATAGCACTCTTGTGTTGCTTTGAAAAATTTGTCCAATTGAGTAGCTGCATGCTGTTT
CCCCAGGTGTTGTAACACAACCTTTATTGATTGAATTTTAAAGCTACTTATTCATAGTTTTATATCCCCCTAAACT
ACCTTTTTGTTCCTTAAATTGATTGTTTTTCCCAAGTGTAATTATCATGCGTTTTATATCTTCTCTAATA
AGGTGTTGGTCTGTTTGTCTGAACAAAGTGCTAGACTTTCTGGAGTGATAATCTGGTGACAAATATTCTCTCTGTA
GCTGTAAGCAAGTCACTTAATCTTTCTACCTCTTTTTTCTATCTGCCAAATTGAGATAATGATACCTTAACCAGTT
AGAAGAGGTAGTGTGAATATTAATTAGTTTATATTACTCTCATTCTTTGAACATGAACATATGCCTATGTAGTGTC
TTTATTTGCTCAGCTGGCTGAGACACTGAAGAAGTCACTGAACAAAACCTACACACGTACCTTCATGTGATTAC
TGCTTCTCTCTCTACCACTATTTTCCACTGAACAAAACCTACACACATACCTTCATGTGGTTCAGTGCCCTTC
CTCTCTCTACCACTATTTTCCACTGAACAAAACCTACGCACATACCTTCATGTGGTTCAGTGCCCTTCCTCTCTC
TACCAGTCTATTTCCATTCTTTTCACTGTGCTGCTGACATGTTTGTGCTCTGTTCCATTTTAAACACTGCTCTTACT
TTTCCAGTCTGTACAGAATGCTATTTTCACTTGAGCAAGATGATGTATGGAAAGGGTGTGGCACTGGTGTCTGGA
GACCTGGATTTGAGTCTTGGTGCTATCAATCACCGTCTGTGTTGAGCAAGGCATTTGGCTGCTGTAAGCTTATT
GCTTCATCTGTAAGCGGTGGTTTTGTAATTTCTGATCTTCCACCTCACAGTGATGTTGTGGGGATCCAGTGAGAT
AGAATACATGTAAGTGTGGTTTTGTAATTTGAAAAGTGCTATACTAAGGGAAAGAATTGAGGAATTAACCTGCATA
CGTTTTGGTGTGCTTTTCAAATGTTTGAAAATAAAAAAATGTTAAGAAATGGGTTTCTTGCCCTAACCACTCTC
TCAAGTGATGAGACAGTGAAGTAAAATTGAGTGCACTAAACGAATAAGATTCTGAGGAAGTCTTATCTTCTGCAG
TGAGTATGGCCCAATGCTTTCTGTGGCTAAACAGATGTAATGGGAAGAAATAAAAGCCTACGTGTTGGTAAATCC
AACAGCAAGGGAGATTTTTGAATCATAATAACTCATAAGGTGCTATCTGTTTCACTGATGCCCTCAGAGCTCTTGC
TGTTAGCTGGCAGCTGACGCTGCTAGGATAGTTAGTTTGGAAATGGTACTTCATAATAAACTACACAAGGAAAGT
CAGCCACCGTGTCTTATGAGGAATTGGACCTAATAAAATTTTAGTGTGCTTCCAAACCTGAGAATATATGCTTTT
GGAAGTTAAAATTTAAATGGCTTTTGCCACATACATAGATCTTCATGATGTGTGAGTGTAATTCATGTGGATAT
CAGTTACCAAACATTACAAAAAATTTTATGGCCCAAAATGACCAACGAAATTTGTACAATAGAATTTATCCAAT
TTTGATCTTTTTATATTCTTCTACCACACCTGGAAACAGACCAATAGACATTTTGGGGTTTTATAATGGGAATTT
GTATAAAGCATTACTCTTTTTCAATAAATTGTTTTTTAATTTAAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1458

MANAGLQLLGFI~~L~~AF~~L~~GWIGAI~~V~~STALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQSTGQIQCKVFD~~S~~LLNLSS
TLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDDEVQKMRMAVIGGAIFLLAGLAILVATAWYGNRIVQEFYD
PMTFVNARYEFGQALFTGWAAASLCLLGALLCCSCPRKTTSYPTPRPYPKPAPSSGKD~~Y~~V

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FIGURE 1459

AATAACCTGGAGCCGGCGGCGTAGGTTGGCTCTTTAGGGCTTCACCCCGAAGCTCCACCTTCGCTCCCGTCTTTC
TGGAACACCGCTTTGATCTCGGCGGTGCGGGACAGGTACCTCCCGGCTGCTGCGGGTGCCCTGGATCCAGTCGG
CTGCACCAGGCGAGCGAGACCTTCCCTGGTGGAGGCTCAGAGTTCGGGCAGGGTGTCATCCGGCCTGTGTGTGGC
GCGAGGCAGGGAAGCCGGTACCCGGGTCTGGCCCCAGCGCTGACGTTTTCTCTCCCTTTCTTCTCTCTTCGCG
GTTGCGGCGTCGCAGACGCTAGTGTGAGCCCCCATGGCAGATACGACCCCGAGCGGCCCCCAAGGGGCGGGCGCT
GTGCAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGCTTGTTTACAGTTTACTGCTCTGCT
CTGTTTGTTCGCTCTTCTTGGGTTGCATGAAGCAGCAAGCTTTTACCAACGTGCTTTGCTGGCAATGCTCTT
ACCAGTGCTCTGAGGCTGCATCAAAGATTACCACACTTCCAGTTAAGCAGAGCATTCTGGCCCAGGCTTTGTTA
GAGGACAGCTGCCACTACCTGTTGTATTCACTCATCTTTGTAAATTCCTATCCAGTTACAATGAGTATCTTCCCA
GTCTTGTTATTCTCTTTGCTTTCATGCTGCCACATATACGAAAAAGGTCTTGACGCAAGGGGCTCAAATAGTTTA
CCTCTGCTGAGATCTGTCTTGACAAATTAAGTGCTAATCAACAAAATATTCTGAAATTCATTGCTTGCAATGAA
ATATTCCTGATGCCTGCGACAGTTTTTATGCTTTTTAGTGGTCAAGGAAGTTTGCTCCAACCTTTTATATACTAT
AGATTTCTTACCCTTCGATATTTCGTCTCGAAGAAACCCATATTGTCGGACCTTATTTAATGAAGTGGAGATTGTT
GTTGAACACATAATAATGAAACCTGCTTGCCCACTGTTTGTGAGAAGACTTTGTCTCCAGAGCATTGCCTTTATA
AGCAGATTGGCACCAACAGTTCCATAGTTTAAACATCTAGTTAAGCTACAAATATAGTATAAGCATTATTAGCAGC
TGGTACTTCTGCTAGGGGTTGTAAATTCAGGTGTTACACTGACCTCAATCCAATTTACATAATTTACATAAATG
CATCTCGGTGGAAAAATAATCATTCTTGGCATGTTAAATCAAGCTTAAAAAGTTTTGAGAAAATTTTACTGTG
CTGTGTTGCTAATGGTTAAAGAAGTCTGTATCTAGTGATAAATATACCAGTTTTTTTTAAAAGATGCTGTTGTGC
CTATATCATGAAGTACATTAATTTCTCATGTAAAAAAATAGCTCTAAAATTTGTTTCAACCTAATTGGTAACCT
GAGTTTATATCTGGCATGAATTCATTATGGTGATACACATATGTGAATTCAGTACATTTTGAGACAGTATTCTAC
CATTGAGTAATTTTGGTTAATGATTTTAAACACTTCTCAGTGTATTTAATTTCAAATTGTTTTTTAATTGGTTTT
ATGCTGCTTTGTTAGGACAGATGTGTTTTGAATGTACCATTATAAGAAGAATTCTATGTATCTTAACTATGATC
TTCTAAAATTTTATTTCCGTAAGTACTTCTGTGGCCTTGAGTATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAG
CCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAG
AGCCATTGAGAAACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAG
TTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTGAATTTTCATAGACAAT
TGCAACAGTTTAGATGCCTTTTGAAAGGAATGTAATGAAGATTGAGCATCTGACTATATGTGTGTCTATCCTGAA
ATAATAATGGAGAGTATACTGTAGATTACATGTTTACCCATCAAATCTGACTTAAAAGGTTAAATGGAAGGTTTT
ATAGGTAAGGTAATTGATTGGGAATGGGGTAGGGGGAGGAGTTGTGGGGGAATAATGTGCATTTGAGTCTCAACG
CATAGATAAATTTAGGGGAATTGGATGCATTATTCAACTTTGATTTGGGTTGTAAAATGTGTTAAATCCTGTTCA
TTGAACTCCCATCAACTCTTATGAAATTCATGCTGATCTTCAATTACCGTTGCATGATTGGAAATGTTTAAACAT
TGTACAGTTTTTAGTATAGAGAAATGTAATGGTTTTTGTGACCAGTTTCTGTCTGCATGTAATTTGGATTCTCAA
ATACATTCATTAGTAATTTATCAGTAACATTAGTTTTATTTTTGTTTCATCTCCTTATCTATAAAAAGGGGATATT
CTTAGGATAAATACATGAAAAATTATACTTGATAGCTTAACTATAATCAGCTATTTTTGTATTTTTGTAATATTT
GTCCACTAAGCTGGAGAAGCAGCCTCATACAGTTGATTTTGTGTATGTGGCTAGTCTTATTGTCACTATGTAAGT
AATCCAATGGTTTTAGAACTAACTTTCTAGAGCAATAAAATGACTATAATGTTAAGT

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FIGURE 1460

MADTTPSGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALEVLP LLGLHEAASFYQRALLANALTSALRLHQRLP
HFQLSRAFLAQALLED SCHYLLYSLIFVNSYPVTMSIFPVLLFSL LHAATYTKKVLDARGSNSLPLLRSVLDKLS
ANQQNILKFIACNEIFLMPATVFMLFSGQGSLLQPF IYYRFLTRYSSRRNPYCRTL FNELRIVEHIIMKPACP
LFVRRCLQSIAFISRLAPTVP

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FIGURE 1461

GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTGCGGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCCTGGGAGGCGGCCCGGAGGTGGGGCGCCGCTGGGGCCGGCCCCGCACGGGCTTCA
TCTGAGGGCGCACGGCCCCGCGACCGAGCGTGCAGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCGCGGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGAIGT
TGAAACCATTTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTGACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGAATGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTCACTCCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAAAATATG
GAATGTCATCTACGAAGAAAACCTGTTTTAAGCCACAGACAATTAAGAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACT
TATACTGGCCTACATGCAAGCATTAAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACAACATTACAGAATTTCAACAGCGATTTGATGGAATTTTGACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAAGTTGTATTTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAATAAAATTCAGGATGAGGAAAACAAAATGTTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTCTTTGCAATTTTGTATGAGAATTCATTTTTTGTGTTGGGATAAAAAAGAAGCACACAACTAAA
GGAGGACTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCTGAGAAATTGATAGCAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCATCTAACCAGACAAGAAATAGTATCATTATTCAACGCATTTGGAAGAAT
TTCTACAAGTGTGAAAGAATTAGAAAACCTTCAGGAACCTGTTACAGAATATTCATTAAAGAAAACAAGCTGATAT
GTGCCTGTTTCTGGACAATGGAGGCGAAAGAGTGAATTTTCAATCAAAGGCATAATAGCAATGACAGCTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAGTAAACACATTTTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTTAATAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAAGTAGCGTTTTATG
TAATAATATGTAATATAAATAAACTATGGTAAATGTGACAAGCATTAAATAGGAAAATGCTAAGGAGGCCTCAT
AAATGACCCATAATTACCAACGTAGAATTTTTTCACTACATTTAGGGTTGCTGGATTTAGCAAATAAAAAATAAGA
TTGCCAGTTAGATTTGAATTTTCAAGATAAACAATTAGTTTTTTTAAATATTTTACATGGAATATTTGGAAAATACTT
ATACTAAAAAATTATTTGTTTGAATTTTCACTTTTAACTGGGAGTCTTGTATTTTATCTGGCAATCCTAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGAATTGGGTTGTTTTTGTGTGTAGAAACGTACAA
TAACAACCTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTTATCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCATAATTGTTTACATACGTGCTTTATCTTTTCTGCTGTA
CACACACACACACACAAATTTTTCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCTTAAACCCTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACCTCCACAATTCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAATACTTTCAAGTTCCAATCTAAAGTTCTTTTTGAGTTTTTGTGCCCCG
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAATAATTTTTTTAGAGACAAGTTTTTGC
TGTGTTGCCCCAAGCTGGAACCTGAACGACTGGGCTGAAGTGATCTTCCCACCTCAGCCTCCAAGTAGCTGGGAA
TACAGGTGCTGCCCACCATACCCAGTTTCAATTTTTGTTTTTATACCCGAAGTTCATTTCTTTGTCTCCCTAAA
ACTGAAGTGTAAATTTGGGAGGTTTTTCAATAGTGAAGCTCTTCAATTTATAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCACATGGTAATTGTAGAGAAAAAGAAGCTATATACCTCAAAATCGTGCCCTCTTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTACTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1462

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAARCFQVSGYLDDCTCDVETIDRFNNYRLFPRLOKLLESDYFR
YYKVNLRPCPFWNDISQCGRRDCAVKPCQSDEVDPGKISASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLNPERYTGYKGPDWKIWNVIYEENCFKPQTIKRPLNPLASGO
GTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLPFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFKCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRI
STSVKELENFRNLLQNIH

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FIGURE 1463

GGCTAATGCACAGACATGAACATCTATTGAGGAAAACCAAAAAAATTCAAACAGCTACAACGGTATCCTAAG
AATATTTCAATTAAATATTAGTATGTCTGCTGAAGGCACTAATTATTAAGAACTTAAATTATCAATCTTTCTT
GAATTTCTGATAGAGAAGTAAACTATTTTCCAAAACCTATTTTTCAGAATGTTCACTGATACATAAAAACTGCTA
GCATCTAATTAAAGATCACTAAGGGTTAAATACTGTTCTCTGGCCCTTACTGCGCACACCCTGCCAAAACATCCT
CTAAGCTTTTAAATATTGCTTCGATGGTCTGAATTTTATTTCCAGGGAAAAAGAGAGTTTTGTCCACAGTCAG
CAGGCCACTAGTTTATTAACTTCCAGTCACCTTGATTTTGTCTAAAATGAAGACTCTGCAGTCTACACTTCTCCT
GTTACTGCTTGTGCGCTCTGATAAAGCCAGCACCAACCCAGCAGGACTCACGCATTATCTATGATTATGGAAC
AGATAATTTTGAAGAATCCATATTTAGCCAAGATTATGAGGATAAATACCTGGATGGAAAAATATTAAGGAAAA
AGAACTGTGATAATACCCAATGAGAAAAGTCTTCAATTACAAAAAGATGAGGCAATAACACCATTACCTCCCAA
GAAAGAAAATGATGAAATGCCACGTGTCTGCTGTGTGTTTGTTTAAGTGGCTCTGTATACTGTGAAGAAGTTGA
CATTGATGCTGTACCACCCTTACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAATTAAAAAGCTGAC
TGCCAAAGATTTTGCAGACATACCTAACTTAAGAAGACTCGATTTTACGGGAAATTTGATAGAAGATATAGAAGA
TGGTACTTTTTCAAACCTTTCTCTGTGTAGAAGAACTTTCACTTGCTGAAAATCAACTACTAAAACCTTCCAGTTCT
TCCTCCCAAGCTCACTTTATTTAATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAA
AAAAGTGAATAACCTCACCTTCCTCTACTTGGACCATAATGCCCTGGAATCCGTGCCTCTTAATTTACCAGAAAG
TCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACACATTCTGCAAGGCTAATGACAC
CAGTTACATCCGGGACCGCATTGAAGAGATACGCCTGGAGGGCAATCCAATCGTCTGGGAAAGCATCCAACAG
TTTTATTTGCTTAAAAAGATTACCGATAGGGTCATACTTTTAACTCTATTGGTACAACATATAAATGAAAGTAC
ACCTACACTAATAGTCTGTCTCAACAATGTGTAAAGGAACCTTAAGTATTGGTTTAATATTAACCTTGTATCTCAT
TTTGAAGGAATTTAATATTTTAAAGCAAGGATGTTCAAAATCTTACATATAATAAGTAAAAAGTAAGACTGAATGT
CTACGTTGAAAACAAAGTAATATGAAAATATTTAAACAGCATTACAAAATCCTAGTTTATACTAGACTACCATTT
AAAAATCATGTTTTTATATAAATGCCCAAATTTGAGATGCATTATTCCTATTACTAATGATGTAAGTACGAGGAT
AAATCCAAGAAAACCTTCAACTCTTTGCCTTTCTGCGCTTTACTGGATCCCAAAGCATTAAAGGTACATGTTCC
AAAAACTTTGAAAAGCTAAATGTTTCCCATGATCGCTCATTCTTCTTTATGATTACATACGTTATTCTTTATAAA
GTAAGAACCTTTGTTTTCTCTCATCAAGGCAGCTATTTTATTAAATTTTCACTTAGTCTGAGAAATAGCAGATA
GTCTCATATTTAGGAAAACCTTTCCAAATAAAATAAATGTTATTCTCTGATAAAGAGCTAATACAGAAATGTTCAA
GTTATTTTACTTTCTGGTAATGTCTTCAGTAAAATATTTCTTTATCTAAATATTAACATTCTAAGTCTACCAA
AAAAGTTTTAAACTCAAGCAGGCCAAAACCAATATGCTTATAAGAAATAATGAAAAGTTCATCCATTTCTGATAA
AGTTCTCTATGGCAAAGTCTTTCAAATACGAGATAACTGCAAAATATTTTCTTTTATACTACAGAAATGAGAAT
CTCATCAATAAATTAGTTCAAGCATAAGATGAAAACAGAATATTCTGTGGTGCCAGTGCACACTACCTTCCCACC
CATACACATCCATGTTCACTGTAACAACTGAATATTCAACAATAAAGCTTCTGAGTAACACTTTCTGATTACTCA
TGATAAACTGACATGGCTAACTGCAAGAATTAAATCTTCTATCTGAGAGTAATAATTTATGATGACTCAGTGGTG
CCAGAGTAAAGTTTCTAAAATAACATTCCTCTCACTTGTACCCCACTAAAAGTATTAGTCTACACATTACATTGA
AGTTAAACACAAAATTATCAGTGTTTTAGAAACATGAGTCCGACTGTGTAAGTAAAAAGTACAAACATTATTTCC
ACCATAAAGTATGTATTGAAATCAAGTTGTCTCTGTGTACAGAATACATACTTATTCCCATTTTTAAAGCATTTCG
TTCTGTTTTCCCTACCTAGAATGTCAGATGTTTTTCAGTTATCTCCCCATTTGTCAAAGTTGACCTCAAGATAAC
ATTTTTCATTAAGCATCTGAGATCTAAGAACACAATTATTATTCTAACAATGATTATTAGCTCATTCACTTATT
TTGATAACTAATGATCACAGCTATTATACTACTTTCTCGTTATTTTGTGTGCATGCCCTCATTTCCCTGACTTAAA
CCTCACTGAGAGCGCAAAATGCAGCTTTTATACTTTTTACTTTCAATTGCCTAGCACAAATAGTGAGTACATTTGAA
TTGAATATATAATAAATATTGCAAAATAAATCCAAAAA

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FIGURE 1464

MKTLQSTLLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEEESIFSQDYEDKYLDGKNIKEKETVIIPNEKSLQLQK
DEAITPLPPKKENDEMPCTCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYAREFNKIKKLTAKDFADIPNLRRLDF
TGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPVLPKLTLENAKYNKIKSRGIKANAFKKLNNLTFLYLDHNAL
ESVPLNLPESLRVIHLQFNNIASITDDTFCKANDTSYIRDRIEEIRLEGNP IVLGKHPNSFICLKRLPIGSYF

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FIGURE 1465

CTATGATGATTTGTAGGGTGGCACCTTTTTATCCAAGTTACTAGCTACACATCAGTGTTTAAAGAGAAAAAGTG
ACCTTTTCATTTTTTTTTTTCTTGAACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTCTTAAACTAA
ATGCATGACTGCAGAGCGGTAGAGGTGTATATTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTTTTTGGAGA
TGGACTGGAAACGTCIGGTTTCTGTCCCCGGGCCCCGGCAGCTACGTCTATTTTCTGTAGAAGGTGCCACAGTGAGA
CCTGGAGCCACCCCTTCCTGCCCTGGCGCCGTTTAGAGCTGGGAGCCCGTGGACTCCCGGCCTGTTTCTACCTTC
TATTCAACCACTCTGACGTGGGGAGACAAGAAGAAATAGAACTTTTTGATAGTGTGGTAAAAACATTGATTTGAA
CTATTTTAGTAAAAGGAGTAACAAACAAGATTGTGATAGTGTCTACTTTGAGCTAGATAAATAAAGGCCTCTTTG
TGAGCCTCCTGGCTGGGTGCTCAGTGCTTGTTCGTGTCGTGGGTGGCAGGGTCAGCAGGCAGAGACAGGGCCAAG
GCCCCCAAGCACCGCAGATGGGGGCTCAGTCGGGGCCCCCTTCCACAGACAGAGCCGTGGCCCCCTCAAGGTGGAC
AGTGAGGCCCGCTGCTCCTCCAGCTGCCTCTGTCTCATCACAGGCCAGAAGTGGAAGGGTTTCAAATCCAAGCCC
CCGGGTTCTGTGTGCGTTCTACGCAGCAAGGCTTCAAAGTTTCAAACCTGGTTTGGAACCTCAACCAGGTCCTCCA
AAGGAAACCAAGGCAGGCACAGGATGGGGGCAGGCTGGCTTGGCAGGCAGCTGTGCGGATCCACCCAGAGTGCCT
TGGGAGGCAGTGGGGTTGGCTGTGGCTGCTGTGAGCTGCAGCCAGGCCTCTCCCGCGTCCCAGGGTCTGGAAGG
AGGGCCTCTGCACATTTTATAAGCCACAGACTGCGAAGGCCTGGAGCCCCACCTTCCACCCATAACAAAGAAAGG
GATAGTTTCAGAACTGCTTTTATTTGGATAACTGACTGAAGGAGTCTCATTGTGAACCAAGATGGAATTCACAGT
ATGTTGTTACATTCACACTTAAAAAATATATCTCTATGTACAGGAATTTGCAAAGAGATGTAAACATACATTAAT
TTCCAAGTACATTTCTCCCCTTCTCCCTGGAGGAAAAAAAAAAGCCATCCAATGAGGCAACCCCTTCAAATAA
TTTTAATACAAAGGATGCAACATCAAAAAAAAAAAAAA

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FIGURE 1466

MGAQSGPLPQTEPWPLKVDSEAAAPPAASVSSQARSGKGFKSKPPGSCVIRSTQQGFKVSNWFGTQPGPPKETKAG
TGWGQAGLAGSCADPPRPWEAVGLAVAAVSCSQASPASPGSGRRASAHFISHRLRRPGAPPSTHNKERDSFRTA
FIWITD

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FIGURE 1467A

CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCGGCCATCTC
CGCACCCCTTCAAGTGGGTGTGGGTGATTTCTGGCGGGGGGAGCAGCCAGGTGAGCCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCGCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTGCTGGACCTGGACTTCTTCACCCAGGAGCCGCTGCACCTGGTGAGCCCCCTC
GTTCTGTCCGTACCATTTGACGCCAACCTGGCCACGGACCCGCGGTTCTTCATCCTCCTGGGTTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAAGCTGCTC
AGGACTGGACTTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAAGTAGGCAATGAACCTAACAGTTTCTCT
TAAGAAGGCTGATATTTTCATCAATGGGTGCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAAGCTCTATGGTCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAA
GAGCTTCCTGAAGGCTGGTGGAGAAGTGATTGATTCAGTTACATGGCATCACTACTATTTGAATGGACGGACTGC
TACCAGGGAAGATTTTCTAAACCCCTGATGTATTGGACATTTTATTTTCATCTGTGCAAAAAGTTTCCAGGTGGT
TGAGAGCACCAGGCCTGGCAAGAAGGTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTCAGCCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTTCTTTGGAGCAGGAACTACCATTTAGTGGATGAAAACCTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAATACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGAAAAACCTCTCCGGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCACTCTGAAAAATAAAATATACTAGTCCIGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTGAGTGTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTTTGCATGTTTTACTTTTATCTAAAGTTTTGT
TTTGTTTTATTATTTATTTATTTATTTATTTTGTGACGGAGAGAGATTCCATCTCAAAAAACAAGTTATTA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAAATGTATTAGAAGATTTTAGAATTCCTTCTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAAACTGGTTGTAAAAAGAGAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGCTGATTTTCTTCTTTTCGGTTTTCTTTGTGCAATAAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTGAGAGGCGAGGAGATTCTGTAACTTAAATTAATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAACACCCAATACCTTATAACTGTCTGTTAATGCTTGCTTTTTCTC
TACCTTTCTTCTTGTGTTTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTACCCAGG
GGATCTGGGTTCTTCCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCAIGGGCCCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGAGTCTC
CTTCATAGACTTGAATAACTCTTTTTTCAGAGCTTCTCACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAATGGGTAATGTGGCCATTTACCAGTCACTGCCAACAACAACGAGGTTCCATAATTGTCTCTGAGTA
ACCTTTTGGAAATGGAGAGGGTGTGGTCAGTCTACAACTGAACACTGCAGTTCTGCGCTTTTTTACCAGTGAAAA
AATGTAATTATTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTATTTTAAATAGCTTTAGGGGTACACACTTTTGTCTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTTCATCCATTACCCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAATACATTATTCTTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCCATTCAATTTCAATTAAAGTATATTTGTAAGG

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FIGURE 1467B

AGCTAAAGCTGAAAATTAAATTTTAGATCTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTTATATTTTCA
CATTGAAATAAAGTAATTTTATAACCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1468

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDFFFTQEP LHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQSQVNDICKYGSIPPDVEEKLRLWPYQEQ
LLREHYQKKFKNSTYSRSSVDVLYTFANC SGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTA KMLKSFLKAGGEVIDSVTWHHYLL
NGRTATREDFLNPDVLDIFISSVQKVQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTVLMA SVQGSKRRKLRVYLHCTNTDNPRYKEGDL
TLYAINLHNVTKYLRLPYPFSNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTLPLMEKPLRPGSSLGLP
AFSYSFFVIRNAKVAACI

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FIGURE 1469

ATAGTCTACACAGAGCTCCCCTTGCTGCCCAGACAAGCTGAAGGACCACAGGAAAAGCCATGGAGACTTCAGCAT
CCTCCTCCCAGCCTCAGGACAACAGTCAAGTCCACAGAGAAACAGAAGATGTAGACTATGGAGAGACAGATTTCC
ACAAGCAAGACGGGAAGGCTGGACTCTTTTCCCAAGAACAATATGAGAGAAACAAGTCTTCTCCTCCTCCTTCT
CTCCTCCTCATCCTCCTCATCTTCTTCATCCTCCTCCTCCTCAGGTCTGGGCATGGGGAGCCTGACGTTTTGA
AGGATGAGCTTCAACTCTATGGAGATGCTCCTGGAGAGGTGGTACCCTCTGGGGAATCAGGACTCCGAAGGAGAG
GCTCTGACCCAGCAAGTGGAGAAGTGGAGGCCTCTCAGTTAAGAAGACTGAATATAAAGAAAGATGATGAGTTTT
TCCATTTTCGTCCTCCTGTGCTTTGCCATCGGGGCCTTGCTGGTGTGTTATCACTATTACGCAGACTGGTTCATGT
CTCTTGGGGTCGGCCTGCTCACCTTCGCCTCCCTGGAAACCGTTGGCATCTACTTCGGACTAGTGTACCGTATCC
ACAGCGTCTCTCAAGGCTTCATCCCCCTCTTCCAGAAGTTTAGGCTGACAGGGTTCAGGAAGACTGACTTGAGGCC
ACTTCCAGGTGGGCAGCAGAGGCAGGCCCCAGTGTGACCACCACTGCGACCCCTGAGCCCACAAGGGCAGAGCAG
CATTCTGAGAGACGCACAGGAGACCAAGCCAGACCAATAAACAGAACTTTTCTTCCATGTGGTCTGAATGTT
GGCACCAGCCCAGGGCAGGGGCATCTCATTTGGGCAGTACTGCTGTGCAACCCAGCTGCAAGGATGGAAGGCAGAG
GGTGGGTGTGGGGCCTGAGGCTTCACAGTACCTGGACCAGCAGGAAGATTCTGGGAGGTCACTGCTCTCAGAGGA
CAGCAAGGGACCCTGAGCTCTGCAAGCTGTGATCTGTCTGGGTTTCATGGTTTTTCTCAAATCCCAGGCTATCTGC
ATGCGCTCTCAGGTGCTACCGAGCCATCCTGGGAGAGATGGATGGTCCACTGCTTTGAGGCAGGGAGCCATCGGG
CTGGGGCCCCCTTGGTGAACCTGATGCAGGTAAGATGCTGAGGACTAAAACCATTTTTTTTGCACCCAAAAAAA
GGCAGGAAAATGATCATCAGAACTAAATGGCAGCCAGGCATGGGGGCTCACGACTGTAATCCTCGCACTTTGGG
AGGCTCAGGCTAAGGGTCGCTTGAAGCTGAGAGTTCAAGACCAACCTGGGCAACATAGTGAGACCCCATCTCTA
CAATTTTTTTTTTAATGACCAAATGTGGCGGTACATACCTGTACATACCTGCGGTTCCAGCTACTCAAGAGGCTGA
GGCAGGAGGACTGCTTGAGCCCAGGAGTTCAGGGCTGCAGTGAGGTACGATCAAGCCACTGCACTCCAGCCTGGG
CGACAGAGCAAGATCGTTTCTCTAAATT

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FIGURE 1470

METSASSSQPDNSQVHRETEDVDYGETDFHKQDGKAGLFSQEQYERNKSSSSSFSSSSSSSSSSSSSSSGPGHG
EPDVLKDELQLYGDAPGEVVPSEGLRRRGSDPASGEVEASQLRRLNIKKDDEFFHFVLLCFAIGALLVCYHYY
ADWFMSLGVGLLTFASLETVGIYFGLVYRIHSVLQGFIPLFQKFRLTGFRKTD

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FIGURE 1471

ATTAATCTGGCCGTGCCATGCATCTACTCCATGTTTCAGGCTTGTGGAGAGGTACGAGATGCCACGGCACGAAGTC
TACGTTCTCCTGATCCGAAACATCTTTTTGAAAATATCAATCATTGGCATTCTTTGTTACTATTGGCTCAACACC
GTGGCCCTGTCTGGTGAAGAGTGTGGGAAACCCCTCATTGGCCAGGACATCTACCGGCTCCTTCTGATGGATTTT
GTGTTCTCTTTAGTCAATTCCTTCCTGGGGGAGTTTCTGAGGAGAATCATTGGGATGCAACTGATCACAAGTCTT
GGCCTTCAGGAGTTTGACATTGCCAGGAACGTTCTAGAACTGATCTATGCACAACTCTGGTGTGGATTGGCATC
TTCTTCTGCCCCCTGCTGCCCTTTATCCAAATGATTATGCTTTTCATCATGTTCTACTCCAAAAATATCAGCCTG
ATGATGAATTTCCAGCCTCCGAGCAAAGCCTGGCGGGCCTCACAGATGATGACTTTCTTCACTCTTCTTGCTCTTT
TTCCCATCCTTCACCGGGGTCTTGTGCACCCTGGCCATCACCATCTGGAGATTGAAGCCTTCAGCTGACTGTGGC
CCTTTTCGAGGTCTGCCTCTCTTCATTCACTCCATCTACAGCTGGATCGACACCCTAAGTACACGGCCTGGCTAC
CTGTGGGTGTTTGGATCTATCGGAACCTCATTGGAAGTGTGCACTTCTTTTTTCATCCTCACCTCATTGTGCTA
ATCATCACCTATCTTTACTGGCAGATCACAGAGGGAAGGAAGATTATGATAAGGCTGCTCCATGAGCAGATCATT
AATGAGGGCAAAGATAAAATGTTCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAAGAAAGCAAACCCC
AGCTCACTTGTTCTGGAAAGGAGAGAGGTGGAGCAACAAGGCTTTTTGCATTTGGGGGAACATGATGGCAGTCTT
GACTTGCGATCTAGAAGATCAGTTCAAGAAGGTAATCCAAGGGCCTTGATGACTCTTTTGGTAACCAGACACCAAT
CAAATAAGGGGAGGAGACGAAAATGGAATGATTTCTTCCATGCCACCTGTGCCTTTAGGAACTGCCAGAAGAAA
ATCCAAGGCTTTAGCCAGGAGCGGAACTGACTACCATGTAATTATCAAAGTAAAATTGGGCATTCCATGCTATT
TTTAATACCTGGATTGCTGATTTTTCAAGACAAAATACTTGGGGTTTTCCAATAAAGATTGTTGTAATATTGAAA
TGAGCCTACAAAACCTAGGAAGAGATAACTAGGGAATAATGTATATTATCTTCAAGAAGTGTGTGCAGGAATGA
TTGGTTCTTAGAAATCTCTCCTGCCAGACTTCCCAGACCTGGCAAAGGTTTAGAACTGTTGCTAAGAAAAGTGG
TCCATCCTGAATAAACATGTAATACTCCAGCAGGGATATGAAGCCTCTGAATTGTAGAACCTGCATTTATTTGTG
ACTTTGAACTAAAGACATCCCCATGTCCCAAAGGTGGAATACAACCAGAGGTCTCATCTCTGAACCTTTCTTGCG
TACTGATTACATGAGTCTTTGGAGTCGGGGATGGAGGAGGTCTGCCCTGTGAGGTGTTATACATGACCATCAA
AGTCCTACGTCAAGCTAGCTTTGCAGTGGCAGTACCGTAGCCAATGAGATTTATCCGAGACGCGATTATTGCTAA
TTGGAAATTTCCCAATACCCACCGTGATGACTTGAAATATAATCAGCGCTGGCAATTTTGTACAGTCTCTACG
GAGACTGAATAAG

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FIGURE 1472

MFR LVERYEMPRHEVYVLLIRNIFLKISIIIGILCYWLNNTVALSGEECWETLIGQDIYRLLLMDFVFSLVNSFLG
EFLRRIIGMQLITSLGLQEFDIARNVLELIYAQTLVWIGIFFCPLLPIQMIMLFIMFYSKNISLMMNFQPPSKA
WRASQMMTFFIFLLFFPSFTGVLCTLAITIWRLKPSADCGPFRGLPLFIHSIYSWIDTLSTRPGYLWVWVIYRNL
IGSVHFFFIILT LIVLIITYLYWQITEGRKIMIRLLHEQI INEGKDKMFLIEKLIKLDMEKKANPSSLVLERREV
EQQGFLHLGEHDGSLDLRSRRSVQEGNPRA

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FIGURE 1473

CACCCGTGGTGCCCCATCCCTATAGGAGCTGGTGAGATTGCAGCCTGCTGCCTCCCCTCCATCAGCCACAGCTAT
TGGATTTCCCACCCAGAATCTTTAGGTAAATGAGATCATGATTCTGGAAGGAGGTGGTGTAATGAATCTCAACCC
CGGCAACAACCTCCTTCACCAGCCGCCAGCCTGGACAGACAGCTACTCCACGTGCAATGTTTCCAGTGGGTTTTT
TGGAGGCCAGTGGCATGAAATTCATCCTCAGTACTGGACCAAGTACCAGGTGTGGGAGTGGCTCCAGCACCTCCT
GGACACCAACCAGCTGGATGCCAATTGTATCCCTTTCCAAGAGTTCGACATCAACGGCGAGCACCTCTGCAGCAT
GAGTTTGCAGGAGTTTACCCGGGCGGCAGGGACGGCGGGGAGCTCCTCTACAGCAACTTGCAGCATCTGAAGTG
GAACGGCCAGTGCAGTAGTGACCTGTTCCAGTCCACACACAATGTCAATTGTCAAGACTGAACAAACTGAGCCTTC
CATCATGAACACCTGGAAAGACGAGAACTATTTATATGACACCAACTATGGTAGCACAGTAGATTTGTTGGACAG
CAAACTTTCTGCCGGGCTCAGATCTCCATGACAACCACCAGTCACTTCCCTGTTGCAGAGTCACCTGATATGAA
AAAGGAGCAAGACCCCCCTGCCAAGTGCCACACCAAAAAGCACAACCCGAGAGGGACTCACTTATGGGAATTCAT
CCGCGACATCCTCTTGAACCCAGACAAGAACCAGGATTAATAAAATGGGAAGACCGATCTGAGGGCGTCTTCAG
GTTCTTGAAATCAGAGGCAGTGGCTCAGCTATGGGGTAAAAAGAACAACAGCAGCATGACCTATGAAAAGCT
CAGCCGAGCTATGAGATATTACTACAAAAGAGAAATCTGGAGCGTGTGGATGGACGAAGACTGGTATATAAATT
TGGGAAGAATGCCCCGAGGATGGAGAGAAAATGAAAACTGAAGCTGCCAATACTTTGGACACAAACCAAAACACAC
ACCAATAATCAGAAACAAAGAACTCCTGGACGTAAATATTTCAAAGACTACTTTTCTCTGATATTTATGTACCA
TGAGGGGAACAAGAACTACTTCTAACGGGAAGAAGAAACACTACAGTCGATTAAAAAAATTATTTTGTACTTC
GAAGTATGTCCTATATGGGGAAAAACGTACACAGTTTTCTGTGAAATATGATGCTGTATGTGGTTGTGATTTTT
TTTACCTCTATTGTGAATCTTTTTCTACTGCAAGAGTAACAGGATTTGTAGCCTTGTGCTTCTTGCTAAGAGAA
AGAAAAACAAATCAGAGGGCATTAAATGTTTTGTATGTTACATGATTTAGAAAAAGGTGATGCATCCTCCTCAC
ATAAGCATCCATATGGCTTCGTCAAGGGAGGTGAACATTGTTGCTGAGTTAAATTCAGGGTCTCAGATGGTTAG
GACAAAGTGGATGGATGCCGGGAAGTTAACCTGAGCCTTAGGATCCAATGAGTGGAGAATGGGGACTTCCAAAA
CCCAAGGTTGGCTATAATCTCTGCATAACCACATGACTTGAATGCTTAAATCAGCAAGAAGAATAATGGTGGGG
TCTTTATACTCATTAGGAATGGTTTTATCTGATSCCAGGGCTGTCTTCTTTCTCCCCTTTGGATGGTTGGTGAA
ATACTYTAATTGCVCTGTCTGCTCACTTCTASCTATTTAAGAGAGAACCAGCTTGGTTCTTTTTTGTCTCCAAGT
GCTTAAAAATAAGTTGGAAGAAAGGAGACGGTGGTGTGGAATGGCTGAAGAGTTTGTCTTGTATCCCTATAGTC
CAAGGTTTCTCAATCTGCACAATTGACATTKKKGGCCGGAGTGTTCTTTTRDDTXARGGCTTTCTGTGCATTGT
AAGATGTTTCAGSAGTATCCACTCATGGTCTCTAACCCTTGACACCAGAAACCCCCCAGCTGTGATAACGCAAAA
TSTCTCTABACATCACCAAAATKTTCCCTGGGGGGGGCAAATTTGCCTTTGATTGAGAACCACCAGTTTAGCTAGT
CAATATGAGGATGGTGGTTTTATTCTCAGAAGAAAAAGATATGTAAGGTCTTTTAGCTCCTTAGAGTGAAGCAAAA
GCAAGACTTCAACCTCAACCTATCTTTATGTTTTAAATGTTAGGGACAATAAGTTGAAATAGCTAGRGGVGCTTC
TYTTCAGAACCCAGATGAGAGCCAATGTCAGATAAAGTAAGCATAGTAATGTAGCAGGAACYACAATAGAAGAC
AWWTWCACTGGMATTACAAAGCAGAADTAAAATTATATTGTAGAAGGAAACACCAAGAAAAGAATTTCCAGGGAA
AATCCTCTTTTGCAGGTATTAATTCTTATAATTTTTTGTCTTTTGGATTATCTGTTTACTGTCTCATCTGAAGTG
ATCCAGGTGAACGGTTTATTGCCTAGATTTGTACTCAGAGGAATTTTTTTTGTGTTTGTCTTTTAAGAAA
GGAAAGAMAGGATGAAAAAATAAACAGAAAACCTCAGCTCAGGCACAATTRTCACCAAGGAGTTAAAAGCTTCTT
CTCAATMGGARGGWTKTTCTGGGGGKYCYKRRRMTAMCMWTGAGCCATGCAATCTGGGAAGCACAGGAATAA
GTAGACACTTTGAAAATGGATTTSAATGTTCTCATCCCTTTTGCAGCTTTTCTTTTGGCTCTCTCATGTCCTTG
GCTTGCTCCTCTATTCKACCTCTTTTCTCCAGCAATAATATGCAATGAAGACATGTATCCATAAGAAGGAGTG
CTCTTCATCAACTAATAGAGCACCTACCACAGTGTACACCTGGTAGAGGTGRGCAATTYATATTYAAAGGTTGC
AAAGTGTGTTGTAATATATTCATGAGGCTGGAAGTAAGRAGAATTAATAATTTKTCCTAATTACAATGAGAACCAT
TCTAGGTAGTGATCTTGGDGCACACATGAATAACTTTCTDAAGGTGCAACCAATCCATTTTTATTCTGCCTGR
AGYTTGDCACCTCTGRGGAGGATGGGGCTTAGATAGTATCGAATGACWATTACTGWGAAAACTTRARAAAARAG
CGAGGGGGCW

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FIGURE 1474

MILEGGGVMNLNPGNNLLHQPPAWTDSYSTCNVSSGFFGGQWHEIHPOYWTKYQVWEWLQHLLDTNQLDANCIPF
QEFDINGEHLCSMSLQEFTRAAGTAGQLLYSNLQHLKWNGQCSSDLFQSTHNVIVKTEQTEPSIMNTWKDENLY
DTNYGSTVDLLDSKTFCRAQISMTTTSHPVAESPDMKKEQDPPAKCHTKKHNPGRGTHLWEFIRDILLNPDKNPG
LIKWEDRSEGVFRFLKSEAVAQLWGKKNNSSMTYEKLSRAMRYYYKREILERV DGRRLVYKFGKNARGWRENEN

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FIGURE 1475

CGGCCTCAGAAAGCCGAGTGAGGAGTTGGCCGTAGTGAGAGGGACCGATCCCTTGGGGCCGCCGGCGGCGAGGCC
GAGCCGCTCCTCCCAATGGCGAAGAAGACGTACGACCTGCTTTTCAAGCTGCTCCTGATCGGGGATTCCGGAGTG
GGGAAGACCTGCGTCCCTTTTCGTTTTTCGGATGATGCCTTCAATACTACCTTTATTTCCACCATAGGAATAGAC
TTCAAGATCAAAACAGTTGAATTACAAGGAAAGAAGATCAAGCTACAGATATGGGATACAGCAGGCCAGGAGCGA
TTTACACCATCACAACTCCTACTACAGAGGCGCAATGGGTATCATGCTAGTATATGACATCACCAATGGTAAA
AGTTTTGAAAAACATCAGCAAATGGCTTAGAAACATAGATGAGCATGCCAATGAAGATGTGGAAAAGATGTTACTA
GGAAACAAGTGTGATATGGACGACAAAAGAGTTGTACCTAAAGGAAAAGGAGAACAGATTGCAAGGGAGCATGGT
ATTAGGTTTTTTTGAGACTAGTGCAAAAGCAAATATAAACATCGAAAAGGCGTTCCTCACGTTAGCTGAAGATATC
CTTCGAAAGACCCCTGTAAAAGAGCCCAACAGTGAAAATGTAGATATCAGCAGTGGAGGAGGCGTGACAGGCTGG
AAGAGCAAATGCTGCTGAGCATTCTCCTGTTCCATCAGTTGCCATCCACTACCCCGTTTTCTCTTCTTGCTGCAA
AATAAACCACTCTGTCCATTTTTAACTCTAAACAGATATTTTTGTTTCTCATCTTAAGTATCCAAGCCACCTATT
TTATTTGTTCTTTCATCTGTGACTGCTTGCTGACTTTATCATAATTTTCTTCAAACAAAAAAATGTATAGAAAAA
TCATGTCTGTGACTTCATTTTTAAATGTACTTGCTCAGCTCAACTGCATTTTCAGTTGTATTATAGTCCAGTTCTT
ATCAACATTAAAACCTATAGCAATCATTTCAAATCTATTCTGCAAATTGTATAAGAATAAAGTTAGAATTAACAA
TTTTATTTGTACAACAGTGAATTTTCTGTCTAGGATAATGTGCTTGAGTCCCTATAATCTATAGACATGTGAT
AGCAAAAGAAACAAACAAAAGCCAGGAAAACACTCATTTTCGCCTTGAATATGTAAATGGGATTAATTTTGTCTT
GTGCCTTATGTGAAAGGGACTTCTTTGGGTTTTCTTTTTTGTCTGGTGAAGCATGTGCAGGGAGACCATAT
CATCCAAACCATAAACCCATTAAATGTTTGTGGTTTGTCTGGCTGTAATTTTCAAAGTAGTTAATTGAGGACAA
AGGGTAATGCAGAAGTGATAGCTTTGGTTTGTCTGAGTCTTGTTTTAAGTGGCCTTGATATTTAAACTATTCTCTG
CCACCATTTCTTCTCCTTGGCCACTTCTTCTTGCCTCTCCCTGCATGCTGCTTTATTTGCTTCTCCCTCCCCAA
CCACCTCATGGTATATTTAAGAGTGAAAGGGACAAACTAGTAGGTTTGTCAAGTTAATATAAAGCACTGATGTA
ACTTGCTAGGTAAACGGAAAGATAAGTTCTAACTGCCTACTATCCAATGTCAGTTAATTGGTGTCTTCCCCCTC
ATTTGCTCTCTTCCCTAAAATGTGTCCAGATGCCTTTCATTTGCTGTTTTACTTCTATGTTCTGCTTTTCTCTCT
CTCTTTGTTCCCTTCCGTCTATCCATTGAGTTTATGAAATGGAAGAGTTAACTGCATGCACTAGTGTGTTGGAGG
GTGTTGTGGTTTGTCTTTCTAATTAGGTGTATAGCCTATTCACTTTTCTAGGAATAAATCTCTTAACCTAAATTT
GAGTAGTCTGCATTTTGGCAACTCCTCTAAGCAGCTTGGTAGCCTAAGTACAGGTTGTTTTTTTTAAAAAGGAAA
AGCAGGAAGGAGGAGTGAATTTTATTAACATGTTTGCCAAATGTATTGAGATTGGCCTCTGAAGAACACTTTTT
CAGTGTTAAGTTTCTTTACCTTAAGATTCCGAAATACTTTAGAATATTATTAATTTTAAGTCTGTCTTTACATC
CTTTTGAAAACTTGTATTACCATGAGTTTGGAAAAAGGACAACGAAAGGCTTTTCATGTAAAGATAAGATCTTT
AGCTATCTCTAACCCTGTCCTTTTTTCACTGCATTTTTTCTAGTTTTGCTTCATTGCTTATCATTAGGATAGGGT
AAGTGAAAGTTTGCTATGCTGCTAGCATCCTAAGATGATACCTTTGTTGAAAAGAAATTGTGAATAGCATGATTCAAT
TCTAGCAGAGGCTGAGTTTAGGACAGCAGCTTCCATTGAGAAGTCTTTCTGTGTCGTGAATAGCATTTTAATGAC
CTCTTGGCTCACATAAGCAAACAACATAGGGACGTATCTGCTATGAAAATCCACAAATTTTTAGATAGTGCCCT
AAAAACAATTTTATATGCCTCACTGGTTGTTATTCTTAGGTTATTCCACACTTGACTTTATCATTGTTTACTAC
TAGTAAAAAGCAGCATTGCCAAATAATCCCTAATTTTCCACTAAAAATATAATGAAATGATGTTAAGCTTTTTGA
AAAGTTTAGGTTAAACCTACTGTTGTTAGATTAAATGTATTTGTTGCTTCCCTTTATCTGGAATGTGGCATTAGCT
TTTTTATTTTAACCCTCTTTAATTCTTATTCAATTCCATGACTTAAGGTTGGAGAGCTAAACACTGGGATTTTTG
GATAACAGACTGACAGTTTTGCATAATTATAATCGGCATTGTACATAGAAAGGATATGGCTACCTTTTGTAAAT
CTGCACTTTCTAAATATCAAAAAGGGAAATGAAGTATAAATCAATTTTGTATAATCTGTTTGAACATGAGTT
TTATTTGCTTAATATTAGCTTTGCCCCTTTTCTGTAAGTCTCTTGGGATCCTGTGTAGAAGCTGTTCTCATTAAA
CACCAAACAGTTAAGTCCATTCTCTGGTACTAGCTACAAATTCGGTTTCATATCTACTTAACAATTTAAATAAA
CTGAAATATTTCTAGATGGTCTACTTCTGTTTCATATAAAAACAAAACCTTGATTTCCAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1476

MAKPTYDLLFKLLLLIGDSGVGKTCVLFRRFSDDAFNTTFISTIGIDFKIKTVELQGKKIKLQIWDTAGQERFHTIT
TSYYRGAMGIMLVYDITNGKSFENISKWLRNIDEHANEDVERMLLGKNCMDMDKRVVPKGKGEQIAREHGIRFFE
TSAKANINIEKAFLTLAEDILRKTPVKEPNSENVDISSGGGVGTGWKSKCC

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FIGURE 1478

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDMSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQQFV

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FIGURE 1479

CTCGTGACAACTCTTCGGGTGCCCTTCGAGAGAAAAGGGGAGGATGCCACTGGAGTCATCCTCTTCAATGCCACTA
TCCTTCCCCTCTCTCTTACCCTCAGTACCACACAATACTAACCCTTCCCCTCCTCTGATGTCTTACATCACCTCC
CAGGAGATGAAGTGTATTCTTCACTGGTTTGCCAATTGGTCAGGTCCCCAGCGTGAACGTTTCCTAGAGGACCTG
GTAGCTAAGGCAGTGCCAGAAAAATTACAACCACTGCTGGATAGTCTGGAGCAGCTTAGTGTGCTGGGGCAGAC
CGACCACCTTCTATCTTTGAGTGCCAGCTACATCTTTGGGATCAGTGGTTTTCGAGGCTGGGCTGAGCAGGAGCGC
AATGAATTTGTCAGACAGCTGGAGTTCAGTGAGCCAGACTTCGTGGCAAAGTTTTACCAAGCAGTGGCTGCTACA
GCTGGTAAGGACTGATAGGCATTTCAGACCAAAGAAGATAACCATAGCTGATGGAGCCATGACTCTCTACAATGAT
AACTCAATTCAAATGTGTTGCCTAAAGCCTGGAAGTGGTATTCCAACCAGCTGACCGAACTCACTGACCAGTAC
AGGCATGGTTATTTCAACATTAATAGCATGTCAACTGGACTCCTATTTGTAAATGTTATCAATCTAAGCAATCCA
GCTCATCAGTCTACTAGTTTGCTTCTTTCCGAGAGATGTCAAGTCCCTCAAGAATTTGATGGCTTCTTCTGCAGCT
ATAACCACAAGGAACCTACACATTGTAAGTCAAGTCCACTGCTGGCTCATGAAATGTGTAAAGTAGAACCTCCT
TCCCGAGAAATAAGACAGGACAATAAAAGGTGGCGTTTTTGTACTTTACCTGGATTCCATTGGCTGGTTTTTACCA
CTCCTATCAGATTGTAGTGTAAATTGTGTGATACGCAAACCATAGTTTTTCCAGTGATGATTTAATAAAATTATG
AAAAATCAGGAGAGGGAGATAATTAGTTGCTTCCCTCCTTCACACTGTTTGAATCGAACTCGCGGTGACTTTTTTT
TTTTTTTAAAAACATGGGTGTCACTTAAGTTTGGAGTGCAGTGGCATGATCATCAGTGAGCGTGAGATCACTGT
GACCTCAAATTCAGGCTGAAGTAATCTTCTGCCTCAGTCTCCTGAGTATCTAGGACTACAGGCCCGCACACA
ATATCTGGCTAATTTTAAATTATTCTGTAGATACAGGGGTCATGCTACGTTTCTAGTCTGGTCTTGAAGTGT
GGCTCAAGCGATCCATTCTCACCTTGGCCTCCCAAAGTGTGGGATTACAGGCATGAACCATCATACCTGGCCT
TTTTCTAAGGCATATGTATGTGATATTCTTGAAGTGGTAGCAGGTGTTCTATTCTGTAAGTTTGCTTTACAAC
AATACGAAAATAAGTGACAATTTACAGGTTGAACAATTTATTTTTGTACCAAATAAAGAATGGATCTTTAGAAC
TGTAAGTCTTACCCTTTTTTCAATTGCCAGGCTATATAATATTGACAACCGGGGAAAGAGGCATTCCAAAGAAAG
TAGAAATTAAGTATACACAATAGATTTTCCATCCAGTTGTCTCACAAGAAATTATCTCTTCCCTTACCCCTGT
ATGTTCTGGGCAACATCATACCTCCCTTATTCCTCTAACTGGGACCTTGTGCTGTGGAGCTCTGGTGAATGGTA
AGAGGCAGATGGTCTCACAGGAAGAGTGGCTCTTTTCTGGTAGGCTGTGGTTCCCATTACACCCACCAGGATTAG
CAGCATTAGGCAGAGTCCCATGGACAGCCTTAGGTGGGTGATGGAGGGATTATGGTCTGAAGTAACCAGCAACCT
AGGAACATAGAAGGTAATATTTGGCATGGAATAATGCCTAGCCTTAGTAGATAAAGCGGCATTACCTTTTTTTTT
TTTTTTTTTTGGAGACAAGGTCTTGGTCTGTTGCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACCGTAAT
CTCCGCTCCCAGGCTCAAGCAATCTCCTGCCTCAACCTTCCGAATAGCTGGGACTACAGGCGCACGCCGACC
ACCACGTCTGGCTAAGGGGCTTTACCCTTAAAGATAGAGCTCATGAAGCCCCGCTCATCCAAGCATTAGCTAA
ACAGGAAATCATTAAAGAGGGACTATCGAACCTTAAAGTAGAAATAAGATCAAGATCTAAGTCTTCTAGCATCTTA
TATTATTGGAAGAAGACCTAAGTGGCAGCAAGGGAAGTGGCTTAAAGGGAAGAGTCAGTCTATGTTCTTTAGGTA
GCTAGACACAATCCCTAACAGTGCTTAAAGAAAGGAAGGGGGCTGGGAGTGGTGGCAGTGGCTCCAGCACTTTGG
GAGGCAGAGGCCGGTGGGTGCTTTAGCTCAGGAGTTGGAGACAAGCCTGGGCAACATGGTGAAGTGTCTCTAT
CAAAAATACAAAAATTAGCTGGCATGGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGGGAA
TCATTGAGCCTAGGGAGGTGAGGACAGTGAGCTGAGATCACCCACTGCATTCAGCCTGGGTGACAGAGC
GAGACCCTGTCTCAAAAAAGAAGAAGAAAAAGGTGGGGGAGGGGACTAAGATCCCCTATGTCTTAGAGATGGGG
AATGTGTTATTGTATGGGAGGAGGGAGTCAGGTAGTGACGGGACTGGATGATCGTGTAGGGATCTTTGTTCTCT
GAAACGCAACCCTGTCTAGGACAATATACAGTGAGTGAGTGCTTAATAAATTTAATTTCAAACAAAAA
AAAAA

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FIGURE 1480

MPLESSSSMPLSFPSLLPSVPHNTNPSFPLMSYITSQEMKCILHWFANWSGPQRERFLEDLVAKAVPEKLQPLLD
SLEQLSVSGADRPPSIFECQLHLWDQWFRGWAEQERNEFVRQLEFSEPDFVAKFYQAVAATAGKD

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FIGURE 1481

CGGATGGGGCGTAGGTGGGCGGTGCGCCACAGCTGCCTGGGTAAGGCCCAAGATGGCTGTCTTCGCCTTAGTAC
TCGTGTGAAGTTGGCGGGGACGGTTCCTGTCATCTTCTTGGGCTTATTTGGTGTGCTGTTGAAGGGGGGAGACTA
GAGAAATGGCAGGGGAACCTCTTATCCGGGGCAGGTAGGCGCCTGTGGGACTGGGTGCCTCTGGCGTGCAGAAGCT
TCTCTCTTGGTGTGCCTAGATTGATCGGTATAAGGCTCACTCTCCCGCCCCCAAGTGGTTGATCGTTGGAACG
AGAAAAGGGCCATGTTCCGGAGTGTATGACAACATCGGGATCCTGGGAACTTTGAAAAGCACCCCAAAGAACTGA
TCAGGGGGCCCATATGGCTTCGAGGTTGAAAGGGAATGAATTGCAACGTTGTATCCGAAAGAGGAAAATGGTTG
GAAGTAGAATGTTGCTGATGACCTGCACAACCTTAATAAACGCATCCGCTATCTCTACAAACACTTTAACCGAC
ATGGGAAGTTTCGATAGAGAGAAAGCTGAGAACTTCGAAAAGGCTCATCTGTCACCCTGGAGAAGGGAACTG
TACTTTTCCCTGTGAGGAAACGGCTTTGTATTTTCTCTGTAATAAAATGGGGCTTCTTTGGAAAAAAAAAAAAA
A

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FIGURE 1482

MAGNLLSGAGRRLLWDWVPLACRSFSLGVPRLIGIRLTLPKVVDRWNEKRAMFGVYDNIGILGNFEKHPKELIR
GPIWLRGWKGNELQRCIRKRKMVGSRMFADDLHNLNKRIRYLYKHFNHRHGKFR

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FIGURE 1483

GGCTCATTCTGCTCCCCCGGGTCGGAGCCCCCGGAGCTGCGCGCGGGCTTGCAAGCGCCTCGCCCCGCGCTGTCTT
CCCGGTGTCCCGCTTCTCCGCGCCCCAGCCGCCGGCTGCCAGCTTTTCGGGGCCCCGAGTCGCACCCAGCGAAGA
GAGCGGGCCCCGGGACAAGCTCGAACTCCGGCCGCCTCGCCCTTCCCCGGCTCCGCTCCCTCTGCCCCCTCGGGGT
CGCGCGCCCCACGATGCTGCAGGGCCCTGGCTCGCTGCTGCTGCTCTTCTCGCCTCGCACTGCTGCCTGGGCTCG
GCGCGCGGGCTCTTCTCTTTGGCCAGCCCGACTTCTCTTACAAGCGCAGCAATTGCAAGCCCATCCCCGGCCAAC
CTGCAGCTGTGCCACGGCATCGAATACCAGAACATGCGGGCTGCCCAACCTGCTGGGGCCACGAGACCATGAAGGAG
GTGCTGGAGCAGGCCGGCGCTTGGATCCCGCTGGTTCATGAAGCAGTGCCACCCGGACACCAAGAAGTTCTGTGC
TCGCTCTTCGCCCCCGTCTGCCTCGATGACCTAGACGAGACCATCCAGCCATGCCACTCGCTCTGCGTGCAGGTG
AAGGACCGCTGCGCCCCGGTCAITGTCGCCCTTCGGCTTCCCCTGGCCCGACATGCTTGAGTGCAGCCGTTTCCCC
CAGGACAACGACCTTTGTCATCCCCCTCGCTAGCAGCGACCACCTCCTGCCAGCCACCGAGGAAGCTCCAAAGGTA
TGTGAAGCCTGCAAAAATAAAAATGATGATGACAACGACATAATGAAAACGCTTTGTAAAAATGATTTTGCAGTG
AAAATAAAAGTGAAAGGAGATAACCTACATCAACCGAGATACCAAAATCATCCTGGAGACCAAGAGCAAGACCATT
TACAAGCTGAACGGTGTGTCCGAAAGGGACCTGAAGAAATCGGTGCTGTGGCTCAAAGACAGCTTGCAGTGCACC
TGTGAGGAGATGAACGACATCAACGCGCCCTATCTGGTCATGGGACAGAAACAGGGTGGGGAGCTGGTGATCACC
TCGGTGAAGCGGTGGCAGAAGGGGCAGAGAGAGTTCAAGCGCATCTCCCGCAGCATCCGCAAGCTGCAGTGCTAG

TCCCGGCATCCTGATGGCTCCGACAGGCCTGCTCCAGAGCACGGCTGACCATTCTGCTCCGGGATCTCAGCTCC
CGTTCCCCAAGCACACTCCTAGCTGCTCCAGTCTCAGCCTGGGCAGCTTCCCCCTGCCTTTTGCACGTTTGCATC
CCCAGCATTTCCTGAGTTATAAGGCCACAGGAGTGGATAGCTGTTTTACCTAAAGGAAAAGCCACCCGAATCT
TGTAAGAAATATTCAAACATAATAAATCATGAATATTTTTATGAAGTTAAAAATAGCTCACTTTAAAGCTAGTTT
TGAATAGGTGCAACTGTGACTTGGGTCTGGTTGGTTGTTGTTTGTGTTTTGAGTCAGCTGATTTTCACTTCCCA
CTGAGGTTGTCATAACATGCAAATTGCTTCAATTTTCTCTGTGGCCCAACTTGTGGGTACAAACCCTGTTGAG
ATAAAGCTGGCTGTTAICTCAACATCTTCATCAGCTCCAGACTGAGACTCAGTGTCTAAGTCTTACAACAATTCA
TCATTTTATACCTTCAATGGGAACCTAAACTGTTACATGTATCACATTCCAGCTACAATACTTCCATTTATTAGA
AGCACATTAACCATTTCTATAGCATGATTTCTTCAAGTAAAAGGCAAAAGATATAAATTTTATAATTGACTTGAG
TACTTTAAGCCTTGTTTTAAACATTTCTTACTTAACTTTTGCAAATTAAACCCATTGTAGCTTACCTGTAATATA
CATAGTAGTTTACCTTTAAAGTTGTAAAAATATTGCTTTAACCAACACTGTAAATATTTTCAAGATAAACATTATA
TTCTTGTATATAAACTTTACATCCTGTTTTACCTATAA

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FIGURE 1484

MLQGPGSLLLLFLASHCCLGSAAGLFLFGQPDFSYKRSNCKPIPANLQLCHGIEYQNMRLPNLLGHETMKEVLEQ
AGAWIPLVMKQCHPDTKKFLCSLFAFVCLDDLDLDETIQCHSLCVQVKDRCAPVMSAFGFPWPDMLECDRFPQDND
LCIPLASSDHLPLATEEAPKVCEACKNKNDNDNDIMETLCKNDFALKIKVKEITYINRDTKIILETKSKTIYKLN
GVSERDLKKSVLWLKDSLQCTCEEMNDINAPYLVMGQKQGELVITSVKRWQKGQREFKRISRSIRKLQC

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FIGURE 1485

GGCACGAGGGTTGGACGTGTTTCGCTTGGGTTCCCTGCTGCGGCAGCCACCTCGCAATCTCTCTGCATCGATCGCCG
CTCGCAAGCTACTGACCGTACTCGGGCGTATTAGGAGCCGCGTTCCAGCCTCACACCCACGGTGCTGTTTTCGA
CTTCAGAAAGGATCTAGCCTCAGCACAGAAGCGCCTCAGGCGCGGCGCAAAGCTCGAGCGGACGGCGGGGGCGGC
CGGAGCCTCTCTCGGGGGAGCCGCGCCTGAGGAGGCGGAAGAACCCCCCTGACGCGACTGGCGTGTGCTTCTGCC
CGCCACCGCCCCCTCCCGCTCTCACCCGGGCGCTCCCTGGCCACTGCCCCCTGCCGCGGAGGCAGCGGCGGCAGCGG
CTCTCCTTTCCACAGCCGGCGCTCCGCGACCCGCTTGGCTCCTGAGCCCGCTCGGGTAGGCTCTCCTCGAGTTCCC
GCTCTTACCCCCCTCCCTCACCCCTCTTCTTTCGTACCCGCTCCCCGACCCACCCGAGCCCGGCGCCTCAGCTGC
CCCCGGCCATGGCGTGCGGAGCCACTCTGAAAAGGACTCTGGATTTTCGACCCGCTGTTGAGCCCGGCGTCCCCGA
AGCGCAGGCGATGTGCGCCATTGTGCGCGCCACCTCGGCCGCTGCCTCCCCGTTGTGCGCGGCCGCGGCCACCG
CCGCCTCCTTCTCCGCTGCGGCCGCTCGCCGCAGAAGTATCTCCGAATGGAGCCATCCCCCTTCGGCGACGTCT
CCTCCCGCCTCACCCACAGAACAAATTCTGTACAACATAAAACAAGAGTATAAACGAATGCAGAAGAGAAGACATT
TAGAAACGAGTTTCCAACAGACAGATCCGTGTTGTACTTCTGATGCACAGCCACATGCATTTCTCCTCAGTGGAC
CAGCTTCACCAGGGACTTCATCTGCAGCATCCTCACCATTAAAAAAGAAGAGCCCTTATTTACTCTACGGCAGG
TTGGGATGATCTGTGAACGTTTGTGAAAGAAGCTGAAGAGAAAGTTGAGAAGAATATGAAGAAATATTGAACA
CAAACTTGCAACAATATGATGCGTTTGTGAAGTTTACGCATGATCAAATAATGCGACGATATGGAGAACAGC
CTGCTAGCTATGTTTCATGAATCACGTATCCTGCATTTGTGGGCTGCCTTGTTCCTTGTGAGTTGTTGCAAGAG
GTCCAATTATGACATGCAGCAATGCCAATACCCCTTCTGTGAATACAGGTTATTTCAAGCTTTCGTCAGTGGCA
ACCACTCTTAGGCAGCAGCAACTGGTTTTGGAAATTTCCCTGATGTCAGTACCACCTGGATGTGGACCTTTGCTA
CCTGTATTAATACCAGTGGCCTCATTTTGCTGTATCATTACAATTTGGCTTCTTATATTAATGTTTGAAAAGGAT
TAAAGCTGGTATTCTAGAACATGCCCTTCACTGGTTGTGTAAATAAACTGTAGAATGACAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1486

MACGATLKRTLDFDPLLSPASPKRRRCAPLSAPTSAAASPLSAAAATAASFSAASASPQKYLRMEPSFPGDVSSR
LTTEQILYNIKQEYKRMQKRRHLETSFQQTDPCCTSDAQPHAFLLSGPASPGTSSAASSPLKKEQPLFTLRQVGM
ICERLLKEREKVVREEYEEILNTKLAEQYDAFVKFTHDQIMRRYGEQPASYVS

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FIGURE 1487

GGCACGAGGGAGAGAGAGAGAGGGGCATTGCTGGCCTGTAGCTCCTGTTACCCACCCAGAGCCAGGCGCCAGACTG
GAGGCTCCAGGCGGGAGGGCCCCAGGCCACCCACGGGCGTCTGGCCGGTCAAGCTCCCAGCCTGGGCGGTGGTC
TCCTGGGGACGCCGCTGGCCTCCCAGCTTAGGCCAGGTGCCAGGTGTCATGGGGTCTCCTGCCCATCTTCCCAA
GGATGCCATTGCTGTCTTCATCGTCTTCCCCCGTGTGAGACACTGGTTGTCTGGTACTCGGCGACAGTGTACCAG
ACGCGCACCCCTATGTGAGGTGCTTTAAGGTCCCTGTCCTCAGGAAGCGCAGTCTGGTGGAAGAGATGAGCGCTGA
ACAAATCACTAAATAAACACAAAACAACAATGTAAGCAGCACTTTCTTGTGTAAAAAAAAAAAAAAAAAGCACGTCCCT
GTCGATGAATTTTGTAGTCTCTCTGCCTTGCCCTGTCCCGACTCCCTTTTCGCGCACCCGTGGCAIGAGAATCTTTCCT
CACGCTGTTTCGTTGCGGTATTGCTGAGCATTGATGTTGATTTGAAGGAAAAGCCGTGGTTGGACCCAGCTGTGTG
TTTCACTCACGTGCAATTGAGTAGCTGTTGCCAGGCTGTCCATGCCTGTTGTGACTACCGGTTGGGGTCAGATTT
GGGGTGAAGAATGAGTAAGTTTCTGCATGCTTTGTCTCTACCTGAGACACTTCTACAACAAGCCAAGTATAATCT
CTCCAGCCCTGCAGATTTTACCTGACTTGTTTCAGCCCCATGCGTAGACTCCCGCTGCAGGCCTCTGGCCTGTGG
CTCACTGCATGCAGCCCTGGCGTGCAATACTAGTGCTCCACGGCGCGATGTGCTTCTAGCCCTTGCACTGCACC
TAGGCTCAGGGTTCAAACGGCCAGCCCAGAAAAGCCTGCCTGCCTTCTTTCTGGAACAGCACGTCCCCGGCCGTG
TGCTGCCCCTTTCTCTACTGAGCTAGTCCCCAAACCAAAGGCAAGCCCCCTCGGGCCTCGGGGGATGGGGCCGG
CCACACCCCTGACTCCGCCCTGGCTCTGCCCCATACCCCTGCCGTGGGGCCGACCTGGGGGATGCAGACATCCGG
CTCCGTATTCTGCTATCGGGGCCAGGATGCAAAAACAATTTTTCGTAAGATGTCACACTGATCTGCTGGA
GTGGGGTGGACACATGAATTCAGTTTATCATGAACACTCGCCACTGGCTGCTTGTAAATTCAGGGATAATGGTG
GCATTCTTACAACTGCTCGGGAAATAGAATGACGGGAACACTTTTAGGGAGCCCAGGAAGTTACCAGGGACATT
GGTGTGCGCCGGCCAGGCAACAGCAGCGTACGCTTTTCAAAGATCATTGAGTTGTCTTAGAATTTGAAGCTGTGT
AATGACAATGTCACCTGGAGTTCGTCTCATTCTTAACTTTTGTGTCACAAGTATTTGGACAGAAGTCGAAC
GTGAATGAGATACTGAAATGCACTAAATTGTATTACATTAACTGGAGTTACTTGATACAATGAAAAAAAAAAAA
AAAAAA

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FIGURE 1488

MGSPAHLPKDAIAVFIVEFPRVRHWLSGTRRQCTRRAPYVRCFKVPVLRKRSLVEEMSAEQITK

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FIGURE 1489

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCCATGGG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGCACAAAACCACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCTGT
ATAAAAAAGGATGTGGTATGAGGATCCATTTTATAAAGTATTGATTTTGCCCAAACCTGTACCATTTCCTGATTTTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACCTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGGAGGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGTATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTTCTTACCA
CCTGAGAACTAAAT

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FIGURE 1490

MGSLSGRLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFFHLQOSAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARS LPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

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FIGURE 1491A

GAGCCGGTGGCGCAGGTGTCGGGGTCTCTGAGCGCCCAGCCTGGGAGCATGATTGTGGACAAGCTGCTGGACGAC
AGCCGCGGCGGAGAGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCTCATGACCAGCCCGCTCAACCTGAGCTAC
TTCTACGGCGCGTCGCGCGCCGCGCGCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTGGGCCCTCGGCG
CCCGGCTCGCCCGGCTCCGACTCCTCCGACTTCTCCTCTGCCTCGTTCGGTGTCTCTCTGCGGCGCCGTGGAGTCC
CGGTGAGAGGCGGCGCCCGCGCCGAGCGCCAGCCAGTTGAGCCCCATATGGGGGTGGCAGGCAGCAGAGAGGC
CCCTTTC AAGGTGTTGCGGTAAAGAACTCAGTGAAGGAACTCCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
TCTGGCCAAGCTGTGGATGATTTTAAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTA
TCATACAGTGGGAAAAGGAAAGGGCCCCGATTTCGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGCAT
TCCCAATTTTTGACACCACCTCAAACACCAACGCCCCGGGGAGAGCATGGAAGATGTTTCATCTCAATGAACCCAAA
CAGGAGAGCAGTGTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGGACTTCCATGGA
GGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTTCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCACAAACCAACTCTGGAA
TACAGTCCTTTTCCCATACCTCCCGAGTCCCCCGCTTATGAACCAACCTCTTTGATGGTCCAGAATCACAGTTT
TGCCCAAACCAAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCAGACT
TCCTCCAGTGTTCAGCAGCAAAATGATGCTCACTTGCACAGCTTCAGCATGATGCCCAGCAGCGCTGTGAGGCC
ATGGTGGGGCACGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
ACCACACAGTTAGGGAATCACTTTTTTCAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTGGCAAATATTTCCCAA
GACCAGTTTCTTTCAAAGGATGCAGATGGTGACACGTTCCCTTCATATTGCTGTTGCCCAAGGGAGAAGGGCACTT
TCCTATGTTCTTGCAAGAAAGATGAATGCACTTCACATGCTGGATATTAAGAGCACAATGGACAGAGTGCCTTT
CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACA
GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCCAGGTGCTTCAGGCGATTGAGAAG
GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCCTCACTGTGCA
GTCATAGCCCACAATGCTGTGGTCCATGAACCTCAGAGAAATCAACAGCCTCATTCACCTGAAGTTCAGGAGCTT
TTACTGAAGAATAAGAGTCTGGTTGATACCATTAAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTCATTGCGCTCTTTTTGGAG
CTGCCCAGTTGCGCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
CAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGCAGACCCAAGTACTCGGAACCTTG
GAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAACAGATCCGACGTATCCTGAAGGGAAAG
TCCATTGAGCAGAGAGCTCCACCGTATTAGCTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTGAGTTAG
GCAGTCTGATGTATCTGTACATAGACCATTGCGCTTATATTGGCAAATGTAAGTTGTTTCTATGAAACAAACAT
ATTTAGTTCATTATTATATAGTGGGTTATATTAAGAAAGAAAGAAAGAAATATCTAATTTCTCTTGGCAGATTTG
CATATTTCATACCCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
GTAGCTTTTGAAGTAGGAAAGGACTTTGATTTGTGGCACAACAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
AGGTAAATTGTAAATGTTTCTTTAAGAAAAAGCATGTGAAGGAAAAAGGTAAATACAGCATTGAGGCTTCATTT
GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
AATTTGATCTTTGCAAACCTGTATATAATTGTTATTTTTGTCTTAAAAATATTGTACATACTTGGTTGTTAACAT
GGTCATATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAAGTGAATTGTTGCTATTTAAAAAATTTTACA
ATTCTTACTAAGGAGTTTTTATTGTGTAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
TCCTTTACTGGCTGAAAGATATATTGCAATTGTAAAGATGCTTTTTCTCATGCATTGAAATTATACATTATTTGT
AGGGAATTGCATGCTTTTTTTTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCAGGCTGGAGTACAGTGG
CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGTAACTGGGAC
TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCAGGCTG
GTCTTGAACCTCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACC
ATGCCCCGCTGGCAGTTGCATGGAAGAGAACACCTCTTTATGGCTTACCCTCTAGAATTTCTAATTTATGTTTC
TGTTGAAATTTTTGTTTTTTTACCTTTATTGAAACAACAAAAAGTCAGTATTGAAACATATCTTCCTGTTTTCTG
TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTCAGAAAAAGTTTTATTTTTTAATAACATTC
TATTAACATTATTTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTTGTA

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FIGURE 1491B

ATAAATTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAGAAAATCTCATTAGTGAACCTTATCTTTG
CAGCTGAGTACTTAAATTCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTATGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTACATTGGAAAACT
GATGGTTTTAAATAAACTAATCACTAATAAAAAAAAAAAAAAA

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FIGURE 1492

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQPVEPHMGVGRQQRGPFQGV RVKNSVKELLHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPDSLSDGPACKRPALLHSQFLTTPQTPTPGESMEDVHLNEPKQESSADLLQNIINIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPPQKCQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HYTHKPTLEYSFPPIPPQSPAYEPNLFDPESQFCPNQSLVSLLDQRESENIANPMQTSSSVQQQND AHLHSFS
MMPSSACEAMVGHEMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEESKLANISQDQFLSKDADGDTFLHI
AVAQGRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVAAHQHLIVQDLVNIGAQVNTTDCWGRTPLVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPHSPEVQEELLLKNKSLVDTIKCLIQ
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAKAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GADPSTRNLENEQPVHLVPDGPVGEQIRIRILKGKSIQQRAPPY

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FIGURE 1493

GGGCTTCGTGTTCTTGGGTGCTGACCGTGCACTCCCCGCCGCCGAGGACTTAGAGCTCTGGAAGTAGCTCTCCA
GCTTCCTTCGTACTCGGGGGCCGGACTTGTACACCCGCACGAGGAGCGGGGACGGCGGGCGCAGAAGTGGGCCAC
CATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGACTCCCCCGGGGACCTGG
AGGATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAAAAATCAGGTAGGATTACCTCGCTCTCACTC
TTGTTTCAGAAAGTCTTTGCTCAGATCTTTCCCTCAGTGGAGAAAGGGGAATACAGAAGAATGTCTCCCTTACAAG
TGCTCAGAGACTGGTGCTCTTGGAGAAAACATAGTTGGCAAATTTCCCATTAACCACAATGACTTCAAAATTTTA
AAAAATAATGAGCGTCAGCTGTGTGAAGTCTCCAGAATAAGTTTGGCTGTATCTCTACCTGGTCTCTCCAGTT
CAGGAAGGCAACAGCAAACTCTCTGCAAGTGTTTCAAGAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAA
GATGACCTCACACACATGCTGTTGATGCTGIGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGAGGCCTG
GCCCTGGCCCTGGTAAAGCTGGTGGATTGAAATCCAAGAAGAGAGCAACAGTTTGTGGCAGATATGGTAAA
GTGTGAGCTGGTGAGATAGCTGTACGGGAGCAGGGAGGCTTCCCTGCAACAGATCATCCATGCTGTTGGGCCT
CGGTGGATGGAATGGGATAAACAGGGATGTACTGGAAAGCTGCAGAGGGCCATTGTAAGTATTCTGAATTATGTC
ATCTATAAAAAATACTCACATTAAGACAGTAGCAATTCAGCCTTGAGCTCTGGGATTTTTCAGTTCCCTCTGAAT
TTGTGTACAAAGACTATTGTAGAGACTATCCGGTTAGTTTGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAA
ATTACCTGGTGAGCAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGT
GAGCTGGGACAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCCAGGGC
CACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGGCA
AAGTCAATTTACAACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTGCCACAAAGGCTAAACAGTTTCAACGG
TCCCAGTTGGTACTGGTCACAAAAGGATTTAACTTGTCTGTAAATATATATACCATGTACTGTGGCATTTCAGAA
TTTCTTAAACCTCAGATATTAAACATGCAATGAAGGAGTGTGTTGAAAAAAGCATTGAGCAAAATATAACTTCC
ATTTCTTTTCTGCCCCTTGGGACTGGAAACATGGAAATAAAGAAGGAAACAGCAGCAGAGATTTTGTGTTGATGAA
GTTTTAACATTTGCCAAAGACCATGTAAAACACCAGTTAACTGTAAAATTTGTGATCTTTCCAACAGATTGAGAG
ATATATAAGGCTTTTCAGTTCTGAAATGGCAAAGAGGTCCAAGATGCTGAGTTTGAACAATTACAGTGTCCCCAG
TCAACCAGAGAGGAGAAAAAGAGAAAATGGGCTTGAAGCTAGATCTCCTGCCATCAATCTGATGGGATTCAACGTG
GAAGAGATGTGTGAGGCCACGCATGGATCCAAGAATCCTGAGTCTCCAGAACCACCACATCATTGAGAATAAT
CATATTCTGTACCTTGGGAGAAAGGAACATGACATTTTGTCTCAGCTTCAGAAAACTTCAAGTGTCTCCATCACA
GAAATTATCAGCCCAGGAAGGACAGAGTTAGAGATTGAAGGAGCCCGGGCTGACCTCATTGAGGTGGTTATGAAC
ATTGAAGATATGCTTTGTAAAGTACAGGAGGAAATGGCAAGGAAAAAGGAGCGAGGCCTTTGGCGCTCGTTAGGA
CAGTGGACTATTTCAGCAACAAAAAACCAGACGAAATGAAAGAAAAATATCATATTTCTGAAATGTCTGTGCCT
CCAACCTCAAGAGCTTCTAGATCAAAAGAAACAGTTTGAAGAAATGTGGTTTGCAGGTTCTAAAGGTGGAGAAGATA
GACAATGAGGTCCTTATGGCTGCCCTTCAAGAAAGAAAGAAATGATGGAAGAAAAAAGTGCACAGGCAACCTGTG
AGCCATAGGCTGTTTCAGCAAGTCCCATACCAGTTCTGCAATGTGGTATGCAGAGTTGGCTTTCAAAGAATGTAC
TCGACACCTTGCGATCCAAAAATACGGAGCTGGCATATACTTCACCAAGAACCTCAAAAACCTGGCAGAGAAGGCC
AAGAAAATCTCTGCTGCAGATAAGCTGATCTATGTGTTTGAAGCTGAAGTACTCACAGGCTTCTTCTGCCAGGGA
CATCCGTTAAATATTGTTCCCCCACCCTGAGTCTGGAGCTATAGATGGTCATGACAGTGTGGTTGACAATGTC
TCCAGCCCTGAAACCTTTGTTATTTTTAGTGGCATGCAGGCTATACCTCAGTATTTGTGGACATGCACCCAGGAA
TATGTACAGTCACAAGATTACTCATCAGGACCAATGAGACCCTTTCACAGCATCCTTGGAGGGGATTGCAAGT
GGCAGCCCTGTTGATTAACTCTCTACATCATTTTAAACAGCTGGTATGGCCTTACCTTGGGTGAACTAACCATAA
TGACCATCGATGGCTCAAAGAGTGGCTTGAATATATCCCATGGGTTATCTGTATGGACTGACTGGGTTATTGAAA
GGACTAGCCACATACTAGCATCTTAGTGCCCTTATCTGTCTTTATGTCTTGGGGTGGGGTAGGTAGATACCAAA
TGAAACACTTTTCAGGACCTTCTTCTCTTGCAGTTGTTCTTTAATCTCCTTTACTAGAGGAGATAAATATTTTG
CATATAATGAAGAAATTTTCTAGTATATAACGCAGGCCTTTTATTTTCTAAAATGATGATAGTATAAAAATGTT
AGGATAACAGAATGATTTTAGATTTTCCAGAGAATATTATAAAGTGCTTTAGGTATGAAAAATAATCATCTTTGT
CTGATTAATAAAAAAAAAA

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FIGURE 1494

MDFSMVAGAAAYNEKSGRITSLSLLFQKVFAQIFPQWRKGNTEECIPYKCSETGALGENYSWQIPINHNDFKILK
NNERQLCEVLQNKFGCISTLVSPVQEGNSKSLQVFRKMLTPRIELSVWKDDLTHAVDAVVNAANEDLLHGGGLA
LALVKAGGFIEIQEESKQFVARYGKVSAGEIAVTGAGRLPCKQIIHAVGPRWMEWDKQGCTGKLQRAIVSILNYVI
YKNTHIKTVAIPALSSGIFQFPLNLCTKTIVETIRVSLQGKPMMSNLKEIHLVSNEDPTVAAFKAASEFILGKSE
LGQETTPSFNAMVVNNLTLQIVQGHIEWQTADVIVNSVNPHDITVGPVAKSILQQAGVEMKSEFLATKAKQFORS
QLVLVTKGFNLFCKYIYHVLWHSEFPKPQILKHAMKECLEKCIEQNITSISFPALGTGNMEIKKETAAEILFDEV
LTFAKDHVKHQLTVKFVIFPTDLEIYKAFSSEMAKRSKMLSLNNYSVPQSTREEKRENGLEARSPAINLMGFNVE
EMCEAHAWIQRILSLQNHIIENNHILYLGRKEHDILSQLQKTSSVSITEIISPGRTELEIEGARADLIEVVMNI
EDMLCKVQEEMARKKERGLWRSLGQWTIQQKTQDEMKENIIFLKCPVPPTQELLDQKKQFEKCGLQVLKVEKID
NEVLMAAFQRRKKMMEEKLHRQPVSHRLFQQVPYQFCNVVCRVGFQRMYSTPCDPKYGAGIYFTKNLKNLAEKAK
KISAADKLIYVFEAEVLTGFFCQGHPLNIVPPPLSPGAIDGHDVVDNVSSPETFVIFSGMQAIPQYLWTCTQEY
VQSQDYSSGPMRPFQAHPWRGFASGSPVD

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FIGURE 1495

CTGACTAACGTGGGCGGAGCTCTAGCTCGCGTATCCTGAGGAGGCGGGGTTGGCCTAGGCGAAGATCCGGACTCT
GGGTGTTTTGCTACCGTGACCGTTTAGAACAGAACTGTTTACTACTTGGTGCGCTGTGGACTCTTGTGATAATTA
ACCAAGAGTAGCTCTATTTGTCCAACCTCACACCTAAAGAAGAAAGAAAATGGCTTGTGCTGAGTTTTCTTTTCA
TGTACCAAGTCTTGAAGAGCTTGTGAGGTTATGCAGAAGGGGTTAAAAAGATAACTTTGCTGATGTCCAGGTCTC
TGTAAGTTGATTGCCCTGATTGACTAAGGAACCCCTTTACCTTTCTGTAAAAGGCATCTGTGGGAAAACCTAGAAT
TGCAGAAGTTGGAGGTGTGCCTTACTTATTGCCTCTTGTAAACCAAAAAAAGTTTATGATCTGAATAAAATTGC
AAAAGAAATCAAGCTGCCTGGAGCCCTTTATTCTTGGAGCAGGAGCAGGTCCATTTTCTGAGCTCTCGGGTTCAATTC
TGAGTTTATGCCAGTTATTCTAGACAGAAAGTGAACACAAGCCTCCTGTAAATGGAAGTTACTTTTGGCCATGTGAA
CCCTGCAGATGGAGGGTGCCTACTGGAGAAATACAGTGAGAAATGTCATGATTTTCTGAGTGIGCATTACTGGCTAA
TCTTTTTGCCAGTGAAGGCCAACCTGGCAAGCCTGCAGAAATTTCTTCTGCCCCCTTGAACCTCTGATGAAGAAGT
GAATAAATGGTTGCATTTTTATGAAATGAAAGCTCCTTTGGTTTGTCTACCAGTTTTTGTCTCCAGAGACCCAGG
GTTTGATTGCGACTGGAGCACACTCATTTTTTTAGTCGTCATGGAGAAGGTGGACACTACCATTATGACACTAC
TCCAGATATAGTGGAATATCTTGGATACTTCTTACCTGCAGAGTTTCTCTATCGCATTGATCAACCAAAAGAGAC
GCATTCAATTGGGCGAGATTAATCAGCTGATACTTATTTAGAAAAAGAAATAATTAAGGTTAATTAATTGATTG
ACTTATTAATTAATACTGATATAAAACCAATAGAAATGATCCCACAGGCCAGGCACAATGGCTCATGCCTATAAT
CCCAGCACTTTGGGAGGCTGAGGCAGGAAGCACACTGGAGCCCAGGAGTTTGAGACCAGCTTGGGCAACATAGCA
AGACCCTGTCTATTTTTTTTTAAAAAGTAAAAAATAGAAATTATCTCACTACTTAAATCCCATTTTTTTTCACTTCA
TATGAAAGAACATATTGATAGTATATTCTATATTATTTTATAGATCTGTCTGAAAGAGATTGGGAACAAAAATAT
CTAATTGAGATATTCTTTAATTTTTTACATAGCAGCTTTATTTTTTTTATTCTGTAGTATCAGCGAAATCAGTCA
TGTTTATACCTTGAATATAAATATCAGGAATCATGCAATTATTTCTACTATGTATTTAGTAGTATCTTATATTTG
TATAACATTATTACATTTTGCAAATTAGTATCACAACCTGCTAAGTAGATGTTTCTGAGTATTAGAAAAATCAGTG
TTATTACCTGCAGGATATTAAAAAACATTTGAAAAAGAGAAAAAGAAAAATCAGTGTTTAGAAATGTTGATAGTT
ATTGAATCTTTGAATTGAATTTTAAAAATCCATTCTAGTAATCAGAGTATACTTTTTTTTATAGAACAAGGTGGCA
GGTGGGGAGCCCTTTACCCTTCTGGTGAAGTTAAACCATAGAAGTTTACAATTTGCCTTTACAAACATTAGCAG
TCCGGGCATGGTGGCTGAAGCCTGTGATCCCAGCATGTTGGGAGGCCGAGTGGGAGGATTGCCTGAGCCTAGGAG
TTTAAACCAGCCTGGGCACCATGGTGAGACCCCATCTCTATTATTTAAATGTTTCTTAAATAAAAAAACACAA
ACATTAGCAACTAGTTGGCTAGCCATAATTCCTCCCTTGTTTCGATTGCCAGTTAGAAGCAATTTTTATTTCACT
GGTTATTTGCAAGAGAAGGGGTAAAAAACAGCATCAGAGTGCAACACTGAAGTGAGCTTACTTTAATTTGTAAG
TGAAGCTGTTGCTGAACGTGACCACTATCGTTGCTGAAATATAAAATTATACTCACTGATTGTAATGGTTGAAAT
TTTCTGAATAATCATTAGCCAAAGATCAACTCTCTAATGGTGCTAATGGCAATCTAGCTAATGTGCAATTTAG
GAAGTCTTCAGTACTAAGTACATAATTTTTCAAATAATTTTTTTAATTGTCTACTTTGGATGTTAGCTATGTCTT
GTGAGTATAAATTCGAATTTTAAGCACTATTTTGATGCAAAAAATGAATAAAAAATTTAATTTAAAAA
AAA

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FIGURE 1496

MACAEFSFHVPSLEELAGVMQKGLKDNFADVQVSVDPCDLTKEPFTFPVKGICGKTRIAEVGGVPYLLPLVNQK
KVYDLNKIAKEIKLPGAFILGAGAGPFQTLGFNSEFMPVIQTESEHKPPVNGSYFAHVNPADGGCLLEKYSEKCH
DFQCALLANLFASEGQPGKPAEFSSCPLNSDEEVNKLHFFYEMKAPLVCLPVFVSRDPGFDLRLEHTHFFSRHGE
GGHYHYDTTPDIVEYLGYFLPAEFLYRIDQPKETHSIGRD

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FIGURE 1497

CGGAGCCCCCTCGGCGGCGCCCGGCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCAACGCCG
AGACCCCCCGCCCCGGCCCCGCGCTTCCTCCCGACGCAGAGCAAACCGCCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCCTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCTGCGAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCACATCCGGCTATGGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCACTTTCGAAGCCGCTTCATGTACGTCTTC
TATGTCAGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGAACGCCTGGCCTTGTCCCAACACTGTGGAC
TGCTTTGTGTCCCGGCCACGGAGAAGACTGTCTTCACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCACTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAGCCAGTTTAAACGCATT
GCCCAGTTGTTAGATTAAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCTAAAGCCTCAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCAGGCTGTTAGGGGTTATTGGTGTAAAGGTACTTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTTCTCTGAGGACAAGAGAAAAAGCCAGGTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCTCCTGGGGTTCTTTTGCCAACCTTCCCGACGTTAAAGGTGAACATTGGTTCCTTCATTTGCTT
TGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACACTTTTTGGAAGTGAAAC
TTTGTAGTATGATAGGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTC
AGATTGTAATATGTAAATGGTATGTCATTCTGCTACTATGATTTAATTTGAAATATGGTCTTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGTCTGTTGTATTTCATTGTGGTCATAGCACCTAACACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTGATGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTGCGTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAAAAACAGATTTGGAAAGACT
GGACTCTAAATTCTGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTGTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACTTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAAAGCATTGTAATAATAAAGAATAGCTTTAAT
GATATGCTTGTAACATAAATAATTTGTAATGTATCAAATACATTTAAAAACATTAAAAATATAATCTCTATAATAA
AAAAAAAAAAAAA

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FIGURE 1498

MDWGTILQTIILGGVNHSTSIGKIWLTIVLFIFRIMILVVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGFMSQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

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FIGURE 1499

GGCACGAGGTGGGCGCGGTAGCGAGCGCCAGCGTGTGCGCCCTGGTGGCGGGGGTGGTGCTGGCTCAGTACATAT
TCACCTTGAAGAGGAAGACGGGGCGGAAGACCAAGATCATCGAGATGATGCCAGAATTCAGAAAAGTTCAGTTC
GAATCAAGAACCCTACAAGAGTAGAAGAAATTATCTGTGGTCTTATCAAAGGAGGAGCTGCCAAACTTCAGATAA
TAACGGACTTTGATATGACACTCAGTAGATTTTCATATAAAGGGAAAAGATGCCCAACATGTCATAATATCATTG
ACAACTGTAAGCTGGTTACAGATGAATGTAGAAAAAAGTTATTGCAACTAAAGGAAAAATACTACGCTATTGAAG
TTGATCCTGTTCTTACTGTAGAAGAGAAGTACCCTTATATGGTGGAAATGGTATACTAAATCACATGGTTTGCTTG
TTCAGCAAGCTTTACCAAAAAGCTAAACTTAAAGAAATTGTGGCAGAATCTGACGTTATGCTCAAAGAAGGATATG
AGAATTTCTTTGATAAGCTCCAACAACATAGCATCCCCGTGTTTCATATTTTCGGCTGGAATCGGCGATGTACTAG
AGGAAGTTATTTCGTCAAGCTGGTGTTTATCATCCCAATGTCAAAGTTGTGTCCAATTTTATGGATTTTGATGAAA
CTGGGGTGCTCAAAGGATTTAAAGGAGAACTAATTCATGTATTTAACAAACATGATGGTGCCTTGAGGAATACAG
AATATTTCAATCAACTAAAAGACAATAGTAACATAATTTCTTCTGGGAGACTCCCAAGGAGACTTAAGAATGGCAG
ATGGAGTGGCCAATGTTGAGCACATTCTGAAAATTGGATATCTAAATGATAGAGTGGATGAGCTTTTAGAAAAGT
ACATGGACTCTTATGATATTGTTTTAGTACAAGATGAATCATTAGAAGTAGCCAACCTCTATTTTACAGAAGATTCT
TATTAACAAGCATTCTCCAAGAAGACCTCTCTCCTGTGGGTGCAATTGAACTGTTTCATCCGTTTCATCTTGCTGAG
AGACTTATTTATAATATATCCTTACTCTCGAAGTGTTCCCTTTGTATAACTGAAGTATTTTCAGATATGGTGAAT
GCATTGACTGGAAGCTCCTTTTCTCCACCTCTCTCAACACACTCCTCACCCTATCTTTTAACCCATTTAAAAAAA
AAAATCTTAAAGCCAAAATTAGAAAAATAACTCCCTACTTTTCCAAAGTGAATTTTGTAGTTTAATGTTATCATG
CAGCTTTTGAGGAGTCTTTTACACTGGGAAAGTTTGTAGAAATTTTAAAATAAGTTTATGAAATGGTGAATAA
TATGCATGATTTTAAGTATTGCCATTTTGTAAATTTGGGTTATTATGCTGATGGTATCACCATCTCTTGAAATTG
TGTTAGGTTTGGTTATTTTGTCTGGGGAAAAAATATTTACTGGAAAAGACTAGCAGTTAGTGTGGAAAAACCTG
GTGGTGTTTACAATGTTGCTAATCATTACAAAACATTCTATATTGAAGCACTGATAATAAATATGAAATGCAAAA
AAAAAAAAAAAAAA

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FIGURE 1500

MMPEFQKSSVRIKNPTRVEEIIICGLIKGGAAKLQIITDFDMLSRFSYKGKRCPTCHNIIDNCKLVTDECRKKLL
QLKEKYAIEVDPVLTVEEKYPYMVEWYTKSHGLLVQQALPKAKLKEIVAESDVMLKEGYENFFDKLQQHSIPVF
IFSAGIGDVLEEVIRQAGVYHPNVKVVSNFMDFDETGVLKGFKGELIHVFNKHDGALRNTEYFNQLKDNSNIILL
GDSQGDLRMADGVANVEHILKIGYLNDRVDELLEKYMDSYDIVLVQDESLEVANSILQKIL

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FIGURE 1501

GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGGGGGTGCCGCGGGGGGGCGGGCGGCGGAGTAGGTGGCGGGCGGCCATGGCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCCGCCACCATCCCCAGCCTGGGGCCCTGGGGAGTCCTGCACTCAAACCCCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAAACACAGGCCCCCACCGGCAGATAAA
GAGAAAAATCCAGGCCCTCCCCACCGTCCCCGTCCTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTATCGTCTCCTCCAGCTCGCCACGCAACGAGAACGCC
ACAAGCAACTCGTGAGCCCCACGTGCGCCGTGCGGAAAGCACGGGGCCCTTTCCACCCACCCCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCGGGCGGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCCGGCCACC GGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCTCTGTCTAACCTCACCTCTAAACGTTTCAGCGGTGGAAGATTTTTATAATTTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTTCAGCGGCTCCCCAGTGTGTCAGGTGCCGCCAGGACGGGCCACGTG
GGCCCCAGCCTCCCCCTCGGCCGCCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAAAACCTGCTCCAACAGACTTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1502

MAEASPHPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRSTENGSAFSTAPTDQSRPPLEHVDQHLEFTL
PQGYGQFAFGIFDDSF EIPTFPPGAQADDGRDPESRRERDHP SRHRYGARQPRARLTTRRATGRHEGVPTLEGII
QQLVNGIITPATIPSLGPWGVLHSNPMDYAWGANGLDAIITQLLNQFENTGPPPADKEKIQALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLFHDGCIVPWLEQHDSCPVCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSS
SPSNENATSNS

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FIGURE 1503

CAGTTTCATTAGGCTCTGAAGCCATTACAAAGGTTGCTTAACCTCTAATTATTTGATCACTGAGGAAAAATCCAGA
AAGCTACACAACACTGAAGGGGTGAAATAAAAAGTCCAGCGATCCAGCGAAAGAAAAGAGAAGTGACAGAAACAAC
TTTACCTGGACTGAAGATAAAAAGCACAGACAAGAGAACAATGCCCTGGACATGGCTCCAGAGATCCACATGACAG
GCCCAATGTGCCTCATTGAGAACTAATGGGGAACCTGGTGGCGAATCCAGAAGCTCTGAAAAATCCTGTCTGCCA
TTACACAGCCTGTGGTGGTGGTGGCAATTGTGGGCCTCTACCGCACAGGAAAATCCTACCTGATGAACAAGCTAG
CTGGGAAGAATAAGGGCTTCTCTCTGGGCTCCACAGTGAAATCTCACACCAAAGGAATCTGGATGTGGTGTGTGC
CTCACCCCCAAAAGCCAGAACACACCTTAGTCCTGCTTGACACTGAGGGCCTGGGAGATGTAAAGAAGGGTGACA
ACCAGAATGACTCCTGGATCTTCACCCTGGCCGTCTCTCTGAGCAGCACTCTCGTGTACAATAGCATGGGAACCA
TCAACCAGCAGGCTATGGACCAACTGTACTATGTGACAGAGCTGACACATCGAATCCGATCAAAAATCCTCACCTG
ATGAGAATGAGAATGAGGATTGAGCTGACTTTGTGAGCTTCTTCCAGATTTTGTGTGGACACTGAGAGATTTCT
CCCTGGACTTGGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTGGAGTATTCCCTGAAGCTAACGCAAG
GTAACAGGAAGCTTGCCAGCTTGAGAACTACAAGATGAAGAGCTGGACCCTGAATTTGTGCAACAAGTAGCAG
ACTTCTGTTCTACATCTTTAGCAATTCCAAAACATAAACTCTTTAGGAGGCATCAAGGTCAATGGGCCCTGTGTC
TAGAGAGCCTAGTGCTGACCTATATCAATGCTATCAGCAGAGGGGATCTGCCCTGCATGGAGAACGCAGTCTGG
CCTTGGCCAGATAGAGAACTCAGCCGCAGTGCAAAAGGCTATTGCCCACTATGACCAGCAGATGGGCCAGAAGG
TGCAGCTGCCCGCAGAAACCTCCAGGAGCTGCTGGACCTGCACAGGGTTAGTGAGAGGGAGGCCACTGAAGTCT
ATATGAAGAACTCTTTCAAGGATGTGGACCATCTGTTTCAAAGAAATTAGCGGCCAGCTAGACAAAAAGCGGG
ATGACTTTTGTAAACAGAATCAAGAAGCATCATCAGATCGTTGCTCAGCTTTACTTCAGGTCATTTTTCAGTCTCT
TAGAAGAAGAAGTGAAGGCGGGGAATTTATTGCAAAACAGGGGGCTATTGTCTCTTTATTTCAGAAGCTACAAGACC
TGGAGAAAAAGTACTATGAGGAACCAAGGAAGGGGATACAGGCTGAAGAGATTCTGCAGACATACTTGAAATCCA
AGGAGTCTGTGACCGATGCAATTCTACAGACAGACCAGATTCTCACAGAAAAGGAAAAAGGAGATTGAAGTGGAAT
GTGTAAAGCTGAATCTGCACAGGCTTCAGCAAAAATGGTGGAGGAAATGCAAAATAAAGTATCAGCAGATGATGG
AAGAGAAAAGAGAAGAGTTATCAAGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGAGAGGGCCAGTTGC
TGGAAAGAGCAAGAGAAGACCCCTCACTAGTAACTTCAGGAACAGGCCCGAGTACTAAAGGAGAGATGCCAAGGTG
AAAGTACCCAACCTTCAAAATGAGATACAAAAGCTACAGAAGACCCCTGAAAAAAAAAACCAGAGATATATGTCGC
ATAAGCTAAAGATCTTAAACAACAGAGCTTTTTCTGTCTATCCTAACCCAAGGCATAACTGAAACAATTTTAGAATTT
GGAACAAGTGTCACTATATTTGATAATAATTAGATCTTGCATCATAACACTAAAAGTTTACAAGAACATGCAGTT
CAATGATCAAAAATCATGTTTTTTCTTAAAAAGATTGTAAATTGTGCAACAAAAGATGCATTTACCTCTGTACCAA
CAGAGGAGGGATCATGAGTTGCCACCCTCAGAAGTTTATTCTTCCAGACGACCAGTGGATACTGAGGAAAGTCT
TAGGTAAAAATCTTGGGACATATTTGGGCACTGGTTTTGGCCAAGTGTACAATAGGTCCCAATATCAGAAACAACC
ATCCTAGCTTCTTAGGGAAGACAGTGTACAGTTCTCCATTATATCAAGGCTACAAGGTCTATGAGCAATAATGTG
ATTTCTGGACATTGCCCATGGATAATTCTCACTGATGGATCTCAAGCTAAAGCAAACCATCTTATACAGAGATCT
AGAATCTTATATTTCCATAGGAAGGTAAAGAAATCATTAGCAAGAGTAGGAATTGAATCATAAACAAATTGGCT
AATGAAGAAATCTTTCTTTCTTGTTCATTCATCTAGATTATAACCTTAATGTGACACCTGAGACCTTTAGACA
GTTGACCCTGAATTAAATAGTCACATGGTAACAATTATGCACTGTGTAATTTTAGTAATGTATAACATGCAATGA
TGCACCTTAACTGAAGATAGAGACTATGTTAGAAAATTGAACTAATTTAATTATTTGATTGTTTTAATCCTAAAG
CATAAGTTAGTCTTTTCTGATTCTTAAAGGTCATACTTGAAATCCTGCCAATTTCCCCAAAGGGAATATGGAA
TTTTTTTGACTTTCTTTTGAGCAATAAAATAATTGTCTTGCCATTACTTAGTATATGTAGACTTCATCCCAATT
GTCAAACATCCTAGGTAAGTGGTTGACATTTCTTACAGCAATTACAGATTATTTTTGAACTAGAAATAAACTAAA
CTAGAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1504

MAPEIHMTGPMCLIENTNGELVANPEALKILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGFSLGSTVKSHT
KGIWMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNQNDSWIFTLAVLLSSTLVYNSMGTINQQAMDQLYYVTELTH
RIRSKSSPDENENEDSADFVSFFPDFVWTLRDFSLEADGQPLTPDEYLEYSLKLTQGNRKLAQLEKLQDEELD
PEFVQQVADFCSYIFSNSKTKTLSGGIKVNGPCLESVLTYINAI SRGDLPCMENAVLALAQIENSAAVQKAIAH
YDQOMGQKVQLPAETLQELLDLHRVSEREATEVYMKNSFKDVDHLFQKKLAAQLDKKRDDFCQONQEASSDRCSA
LLQVIFSPLEEEVKAGIYSKPGGYCLFIQKLQDLEKKYYEEPRKGIQAEIILQTYLKSKE SVTDAILQTDQILTE
KEKEIEVECVKAESAQASAKMVEEMQIKYQQMMEEKEKSYQEHVKQLTEKMERERAQLLEEQEKTILTSKLQE QAR
VLKERCQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI

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FIGURE 1505

ATTGCTGGCCTAGGTGAAACTGACGGTCTCCATTAGAAACATGCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTCCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTTCCTAAGAGTACACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTC
AAGGAAAGGACTAGAAGAATTTTTTGTGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTGGAGCAGCATG
GACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAA
CATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAAGATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAAATTTAGAGAGAAAAGCAAAAATTCCTTT
AAAAAGTTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGCTTAAGATGTCTGAACCTATTAAATTTACCAT
TTTGTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCGTGTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACTTTATAAATTCGTGACATTTAAGCAGGCTTTAAATGT
CACCTGCTACCTTAGAGTGTGAAGGTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTTAATTCGTGAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAAATGCTTGTAATAAGAATAAGTGCATTTCAAGGAAAGCACAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAAATTGAAATATGCAAAAATGTATAAACATTCTAC
AAAAGATGGTCATTCTTTTCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTCTCAAGGGCATTTTCTTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTG
CTGGAGATCCTTCACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAACTGCAGTTTTGCAAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTCTGTCAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGGAACCTATCCAGTCTTCAACCATCCCATTTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTTGCCTT
TATCGCCATCTATTTCCATTAAATGTGCTTCCGTCTCTCTTTCTACCACCATAACCAATAGCTGTAGGAAAATCCA
CCTTGGGGCAGTCCCTCACCAGCATAACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAACCT
CATCTCCCCCGTACCACGCCGCCGCTCATGGCTGCTGCCGGCGGACTCCTACCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCCTGACTCCCTTAACCTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

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FIGURE 1506

MAATSLVGICRRASAF LKAACSLVNP KDAAHSGCRSSLSLPKSTPNVTSFHQYRL LHTT LSRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAQRQLPMPSPERLDKVVD SMDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKREFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

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FIGURE 1507

GTCGGTTCCGGGCGTTACCATCGTCCGTGCGCACCGCCCGGCGTCCAGGTGAGTCTCCCATCTGCAGAGACGCGG
ACGCGCCGGCCCGCAGTTGGCCTGCGGAGCGCGGTGGACGTTTGGCGCCACCAGGCGATCAATACTTTGGATT
TTTAATTTCTAGATTTGGCAATTCTTCGCTGAAGTCATCATGAGCTTTTCCAACCTCTGATGAAAAGGAAGGAA
CTCATTCCCTTGGTGGTGTTCATGACTGTGGCGGCGGGTGGAGCCTCATCTTTTCGCTGTGTATTCTCTTTGGAAA
ACCGATGTGATCCTTGATCGAAAAAAAAATCCAGAACCTTGGGAACTGTGGACCCTACTGTACCTCAAAAGCTT
ATAACAATCAACCAACAATGGAAACCCATTGAAGAGTTGCAAAATGTCCAAAGGGTGACCAAAATGACGAGCCCTC
GCCTCTTTCTTCTGAAGAGTACTCTATAAATCTAGTGGAAACATTTCTGCACAACTAGATTCTGGACACCAGTG
TGCGGAAATGCTTCTGCTACATTTTTAGGGTTTGTCTACATTTTTTGGGCTCTGGATAAGGAATTAAAGGAGTGC
AGCAATAACTGCACTGTCTAAAAGTTTGTGCTTATTTTCTTGTAATTTGAATATTGCATATTGAAATTTTTGTT
TATGATCTATGAATGTTTTTCTTAAATTTACAAAGCTTTGTAAATTAGATTTTCTTTAATAAAATGCCATTTGT
GCAAGATTTCTCAAAGATTAGGTATATATTTAAATGGAAGAGAAAATATTTTTATGGGAGAAAAATACATTTGAA
CCATGAAATTTTCATCTTTTAAATAACATCCAGTACAGATATCTGTGTAAAAAAAAAAAAAA

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FIGURE 1508

MSFFQLLMKRKELIPLVVFMTVAAGGASSFAVYSLWKTDVILDRKKNPEPWETVDPTVPQKLITINQQWKPIEEL
QNVQRVTK

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FIGURE 1509A

ATGCCGGTGCAGCTGACGACAGCCCTGCGTGTGGTGGGCACCAGCCTGTTTGCCCTGGCAGTGCTGGGTGGCATC
CTGGCAGCCTATGTGACGGGCTACCAGTTCATCCACACGAAAAGCACTACCTGTCCTTCGGCCTGTACGGCGCC
ATCCTGGGCTGCACCTGCTCATTAGAGCCTTTTTGCTTCCTGGAGCACC GGCGCATGCCAGCTGCCGGCCAG
GCCCTGAAGCTGCCCTCCCCGCGCGGGGCTCGGTGGCACTGTGCATTGCCGCATACCAGGAGGACCCTGACTAC
TTGCGCAAGTGCCCTGCGCTCGGCCAGCGCATCTCCTTCCTGACCTCAAGGTGGTTCATGGTGGTGGATGGCAAC
CGCCAGGAGGACGCCTACATGCTGGACATCTTCCACGAGGTGCTGGGCGGCACCGAGCAGGCCGGCTTCTTTGTG
TGGCGCAGCAACTTCCATGAGGCAGGCGAGGGTGAGACGGAGGCCAGCCTGCAGGAGGGCATGGACCGTGTGCGG
GATGTGGTGGCGGCCAGCACCTTCTCGTGCATCATGCAGAAGTGGGGAGGCAAGCGCGAGGTTCATGTACACGGCC
TTCAAGGCCCTCGGCGATTTCGGTGGACTACATCCAGGTGTGCGACTCTGACACTGTGCTGGATCCAGCCTGCACC
ATCGAGATGCTTCGAGTCTGGAGGAGGATCCCCAAGTAGGGGGAGTCGGGGGAGATGTCCAGATCCTCAACAAG
TACGACTCATGGATTTCCTTCCTGAGCAGCGTGCGGTACTGGATGGCCTTCAACGTGGAGCGGGCCTGCCAGTCC
TACTTTGGCTGTGTGAGTGTATTAGTGGGCCCTTGGGCATGTACCGCAACAGCCTCCTCCAGCAGTTCCTGGAG
GACTGGTACCATCAGAAGTTCCTAGGCAGCAAGTGCAGCTTCGGGGATGACCGGCACCTCACCAACCGAGTCCCTG
AGCCTTGGCTACCGAACTAAGTATACCGCGCGCTCCAAGTGCTCAGAGACCCCCACTAAGTACCTCCGGTGG
CTCAACCAGCAAACCCGCTGGAGCAAGTCTTACTTCCGGGAGTGGCTCTACAACTCTCTGTGGTTCCATAAGCAC
CACCTCTGGATGACCTACGAGTCAGTGGTTCACGGGTTTCTTCCCTTCTTCCTCATTGCCACGGTTATACAGCTT
TTCTACCGGGGGCCGATCTGGAACATTCTCCTCTTCTGCTGACGGTGCAGCTGGTGGGCATTATCAAGGCCACC
TACGCTGCTTCCTTCGGGGCAATGCAGAGATGATCTTCATGTCCCTCTACTCCCTCCTCTATATGTCCAGCCTT
CTGCCGGCCAAGATCTTTGCCATTGCTACCATCAACAAATCTGGCTGGGGCACCTCTGGCCGAAAACCATTGTG
GTGAATTCATTGGCCTCATTCCTGTGTCCATCTGGGTGGCAGTTCCTCTGGAGGGGCTGGCCTACACAGCTTAT
TGCCAGGACCTGTTTCAGTGAGACAGAGCTAGCCTTCCTTGTCTCTGGGGCTATACTGTATGGCTGCTACTGGGTG
GCCCTCCTCATGCTATATCTGGCCATCATCGCCCGCGATGTGGGAAGAAGCCGGAGCAGTACAGCTTGGCTTTT
GCTGAGGTGTGACATGGCCCCAAGCAGAGCGGGTAAAGTGCAATGGGTAAGGGAGGGAAGGGGAATGGAAGAGA
AAAGACAGGGTGGGAGGGAGGAGGGAGTGTGTGTTTTAGTCTCTTAATGGTCCAAAGGACAAATCTAAAATGCA
AAGAACGGTGATGTAGTATGGCCTGACAGCTCTGTTTAGAGGAGGCAACACTGATCCCCCAGATGCAGGGCTGCA
GGGGATTCTGTGTTTTAGACTGCCTGTCTGCTTGCATCTGCACATAGGCAGTAGCCTCCTCCTGGGCTCCAGAG
GGCACTCAGAAGTTGTGCTAAACCAAGTTAAGTCCCATTCAGTGGCAACTTGTGATAGGTACCTGAGTGACGGCA
ACCTGCGGAAGGAGGTTCTCCAGCCCATCTGAACACAACCAGAGGTGGCAGGAGAATTTCTACTGAGCGAGGTG
GGCCGGTTAGTGTATGTACCCCCACCCACCCATAAGTAGTCATCAATGCAATAAGATTGCGCGTGAGATACAA
GGCCCAGAAGCCTGATCTTTGGGCATCAGAAAACAGGGTCCAGGAATGGTGCTTTATGTGAGATACCCCACTCCA
CATCAACATTCCAGGGATGAGCCAAACCAGCAGGGAGTTAGCACTGAACTGCTTTTAAAAGTGCACATTAAAAAG
GAAAGTTTGCCAGGAGGAACAAAGAGATTGTGGTGGTGCTAAAGGAGGCCATAAGCTACACAGAGGCCTTGGGTG
TTCCACCTGGAACTGCTCAGACGTCTAGATGGGTCTTAGCTTGTCTGTGATCTCTGCTGGGGAGATAAAAAGA
TTAAGCCCCAACATGTTAGAAAAGAGTGAAGTCTTGGGTATTTTAACTGTATACTCTTGAATTCTCTCAAA
TTCAGCTCTGATCTGAGGCTAAGACACACTCCCCACTTCACTTTCTTCAAAGCCACATTTTTTGAGGTATCACTG
CAGTCACCTCTTCTACCCTCATCATCATAGGTAAGGTTTTCAAGGTGGCAATTGGGGCGGAGCCCCGGCTTCTTA
TAGAAGCTTCAGCAGGAGGCAAGCGTGTCTCAGCACATATGGGAACATGAGGAGCCTCTGATCAAATTGGCTA
CAATCTTGGAGCTGCTTGGACGGATTTCCTTGGCAGCCGGGTTAGCATGTGTGACTTTCAGGCTACTGTTCTTGAC
AATCATCTCCAATGGAAGCTTTTCAGTGTTCCTCAAAGTGAACCTCTCAAATCCAAAATGGTTATCTTTGAGACCA
TCCATTCTCCTCAGTGGCTTCTCCAGGGAATTCTTACAGCCAAGTTGTGACAGTCACTGCATTTGCCTGCTTCTT
TCCAGAAACCAAAGTAGGAGATGAACTGGTTTCTACATCCTAAGGTTCTTGCTTCTCTCATGCCTCCTGAG
GCTGTTTTTGGCTGTTTTCCCTCTGCTGCTTTTTGGGGAATGAGGGGAAGCCATTTTCAAAGTGAAGTGCATCCA
GGCTGTTCTCAGCGTTTTGAGTTTTAAACCTGGGATCCTGACTAAGCCTTTGACTTAAGGGTTGCTTGCTTGCCC
TCCAAATGTCCTTTCTCAAAGGGGCCAACTAACCCTGTCAGAACAGCACTAAGGTGGACAGCAGACAAGAGGGC
AAGCCTCTAATGTACCAAGTGCTTCTTACAAAGACGCAAGGTGTGCTCCGAACCACAGATGGGCAAACCTGGTG
CTTTCTTTCATCTCCACGAACTCAAGGGTTTTCCAAGTGTAGCTAACAGTTGCCACATCACACAGACCTCCAGT
TTCTGGTAAGACTGCTGGTTGACATCAGACCCAACCCATTGAAGGCTGGAAGGCAGCAGGCATTTGCTAAGGCAG
CTGATCCAGGCAATCGTTCTGCTGGCCAAGAAGTTAACTATTTTGAAGCATTAGAATGGAGGAAATCCGGTCAGC

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FIGURE 1509B

CAAGTGCAGAGTTCAGACTTCGCTAAGGGCTTGTTTTCTTCAGCATTACTTGAAGATTAATGTAGGATGACAG
GCTCTCCTGGCTGTCCTACCATCAGCTCTGCCTTGCACTGTGGTCGTCAACTTCCTCAAATCAAAAACAGGCAG
GTACAGGTAGTGGGCTCACAACGTTTGACCTCGACTGGTTTTCTAAGTTATTTGTACATTTTTCAGCAGCAA
ACCAAACCTGGGTCTTCAGCTTTATCCCCGTTTCTTGCAAGGGAAGAGCCTTATACAATTGGACGCATTTTGGTT
TTTCCTCATTGAGAATTCAAATCCTCTTTTGATTGTTTCTACAATAATTGTAAACATATTTATTTTACCTGC
TTTTTTTTTTTTTTTTTAATTTTCAGGTCAAGTTTTTTATACTGCACTTATTTGTCAAAATAAAGATTCTCACAT

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FIGURE 1510

MPVQLTTALRVVGTSLFALAVLGGILAAYVTGYQFIHTEKHYLSFGLYGAILGLHLLIQSLFAFLEHRRMRRAGQ
ALKLPSPRRGSVALCIAAYQEDPDYLRKCLRSAQRISFPDLKVVMVVDGNRQEDAYMLDIFHEVLGGTEQAGFFV
WRSNFHEAGEGETEASLQEGMDRVRDVVRASFSCIMQKWGGKREVMYTAFKALGDSVDYIQVCDSDTVLDPACT
IEMLRVLEEDPQVGGVGGDVQILNKYDSWISFLSSVRYWMAFNVERACQSYFGCVQCISGPLGMYRNSLLQQFLE
DWYHQKFLGSKCSFGDDRHLTNRVLSLGYRTKYTARSKCLTETPTKYLRWLNQQTRWSKSYFREWLNSLWFHKK
HLWMTYESVVTGFFPFFLIATVIQLFYRGRIWNILLFLLTVQLVGIIKATYACFLRGNAEMIFMSLYSLLYMSSL
LPAKIFAIATINKSGWGTSGRKTIVVNF IGLIPVSIWVAVLLEGLAYTAYCQDLFSETELAFVSGAILYGCYWV
ALLMLYLAI IARRCGKKPEQYSLAFAEV

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FIGURE 1512

MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIEGAEDGLDSTVSEAA
LPWGTGPQPSAPFPDPPGWRDIEPEPPESEPLTKLEELPEDDANLLPEKAARAFVPIDLQCIERQPQEDLIVRCE
AGEGECRTFMPPRVTHPDPTERKWAEAVVRPPGCSCGGCGSCGDREWLRAVASVGAALILFPCLLYGAYAFLEFD
VPRLPTMSSRLIYTLRCGVFATFP IVLGILVYGLSLLCF SALRPFGEPRREVEIHRRYVAQSVQLFIFYFFNLAV
LSTYLPQDTLKLLPLLTLGFAVSRLIYWLTFAVGRSFRGFGYGLTFLPLL SMLMWNLYYMFVVEPERMLTATESR
LDYPDHARSASDYRPRPWG

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FIGURE 1513

CACTTGACCTTCCATCAGTAAGACGGACTTTTCTAATCTGTTCCCTGGAGATATTAATGGAATACAGTCATGTCCA
CTCAAGACGAGAGGCAGATCAATACTGAATATGCTGTGTCATTGTTGGAACAGTTGAAACTGTTTTATGAACAGC
AGTTGTTTTACTGACATAGTGTTAATTGTTGAGGGCACTGAATTCCTTGTCTATAAGATGGTTCTTGCAACATGTA
GCTCTTATTTTCAGGGCCATGTTTTATGAGTGGACTAAGTGAAAGCAAACAAACCCATGTACACCTGAGGAATGTCG
ATGCTGCCACCTTACAGATAATAATAACTTATGCATACACGGGTAACCTGGCAATGAATGACAGCACTGTAGAAC
AGCTTTATGAAACAGCTTGCTTCCTACAGGTAGAAGATGTGTTACAACGTTGTCGAGAATATTTAATTAAAAAAA
TAAATGCAGAGAATTGTGTACGATTGTTGAGTTTTGCTGATCTCTTCAGTTGTGAGGAATTTAAACAGAGTGCTA
AAAGAATGGTGGAGCACAAGTTCACTGCTGTGTATCATCAGGTCGCGTTCATGCAGCTGTACATGACCTCCTCA
TAGACATCTTCAGCAGCGACAACCTTAAATGTAGAAAAGGAGGAAACCGTTTCGAGAAGCTGCTATGCTGTGGCTAG
AGTATAACACAGAATCACGATCCCAGTATTTGTCTTCTGTTCTTAGCCAAATCAGAATTGATGCACTTTCAGAAG
TAACACAGAGAGCTTGTTTTCAAGGTCTGCCACCCAATGATAAGTCAGTGGTGGTTCAAGGTCTGTATAAGTCCA
TGCCCAAGTTTTTCAAACCAAGACTTGGGATGACTAAAGAGGAAATGATGATTTTCATTGAAGCATCTTCAGAAA
ATCCTTGTTAGTCTTTACTCTTCTGTCTGTTACAGCCCCCAAGCAGAAAAAGTTTACAAGTTATGTAGCCCCACCAG
CTGATTTGCATAAGGTTGGGACCGTTGTAACCTGATAATGATATCTACATAGCAGGGGGTCAAGTTCCCTCTGG
AAAAACACAAAAACAAATCACAGTAAAAACAAGCAAACCTTCAGACTGCCTTCAGAACTGTGAATTGCTTTTATTGG
TTTGATGCACAGCAAAATACCTGGTTTCCAAAGACCCCAATGCTTTTTGTCCGCATAAAGCCATCTTTGGTTTG

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FIGURE 1514

MSTQDERQINTEYAVSLLEQLKLFYEQQLFTDIVLIVEGTEFPCHKMVLATCSSYFRAMFMSGLSSESKQTHVHLR
NVDAATLQIIITYAYTGNLAMNDSTVEQLYETACFLQVEDVLQRCREYLIKKINAENCVRLLSFADLFSCEELKQ
SAKRMVEHKFTAVYHQVAFMQLSHDLLIDIFSSDNLNVEKEETVREAAMLWLEYNTESRSQYLSSVLSQIRIDAL
SEVTQRAWFQGLPPNDKSVVVQGLYKSMPEFFKPRLGMTKEEMMIFIEASSENPCSLYSSVCYSPQAEKVYKLCS
PPADLHKVGTVVTPDNDIYIAGGQVPLEKHKNKSQ

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FIGURE 1515

GGCCCATGCAAGTCCAAAATTGAGCAGGGCAGTCAAATTTTAAACCTCCAAAATGATCACCTTTGACTCCACGTC
TCACAATCATCTCTCTCAAGTTCGAAGTTCACAAAATCTCTAAGGCAAGGGAAAGATGCTGCCAGTCTCTTTGCT
AAAACACAGCAAGAGTCACCTTTACTCCAGTTCACAAAAAGTTTTTTCATCTCCATCTGAGACCACCTCAGCCTGA
ATTTTATTGTCAATATTGCTATCAGCATTGTTGGGCAAAGCCATTGAGCAAGTATCTAGGAAGTTCCAAACTTTCC
CACATTTTCCTGTCTTCTTCTGAGCCCTTCAAACCTGTTCCAACCTCTGCCTGTTACCCAGTTCCAAACTTGCTTT
CATATTTTTGGCTATCTTTTCAGCAATGCCCACTCTACTGTTAGCAGTTTACTGTATTAGTCTGTTTTACACT
GCTGATAAAGACATTCTCAAGATTGTGAAGAAAAAGAGTTTAATTGGACTTACAGTTCCACATGGCCGGGGAG
GCCTCAGAAATCATGGCGGGAGGTGAAAAGCACTTCGTACATGGTGGTGGCAAGAGAAAATGAAGAAGAAGCAAAA
GTGGAAACCCCTGATAAACCCTATCAGATCTCATGAGACTTACTATCATGAGAATAGCACAGGAAAGACTGGCCCC
CCTGATTGATGACCTCCCCCTGGGTCCCTCCCACAACATGTGGGAATTCCAGAAGATAAATTCAAGTTGCAATT
TCAGTGGGGACATAGCCAAACCAGGCGCCAGGTAGCTCCTGCCCTTAGCCCAGGAGGCCATCCCTGCAGCGGGGC
CACGGGCATCGGAAAAGCCATCGTGAAGGAGCTCCTGGAGCTGGGGAGTAATGTGGTCATTGCATCCCGTAAGTT
GGAGAGATTGAAGTCTGCGGCAGATGAAGTGCAGGCCAACCTACCTCCCACAAAGCAGGCACGAGTCATTCCCAT
ACAATGCAACATCCGGAATGAGGAGGAGGTGAATAATTTGGTCAAATCTACCTTAGATACTTTTGGTAAGATCAA
TTTCTTGGTGAACAATGGAGGAGGCCAGTTTCTTTCCCTGCTGAACACATCAGTTCTAAGGGATGGCACGCTGT
GCTTGAGACCAACCTGACGGGTACCTTCTACATGTGCAAAGCAGTTGACCAGCTAATCTGGCTTCTGTGTCTTTT
TGAAATGGCTCAGACCTGTTTCTCCAAGAAGACCTAGTTCCCTTTAGTAGTTTACAGCTCCTGGATGAAAGAGCA
TGGAGGATCTATCGTCAATATCATTTGCCCTACTAAAGCTGGATTTCCATTAGCTGTGCATTCTGGAGCTGCAAG
AGCAGGTGTTTACAACCTCACCAATCTTTAGCTTTGGAATGGGCCTGCAGTGAATACGGATCAATTGTGTTGC
CCCTGGAGTTATTTATTTCCAGACTGCTGTGGAGAACTATGTTTCTGGGGACAAAGCTTCTTTGAAGGGTCTTT
TCAGAAAATCCCCGCTAAACGAATTGGTGTTCCTGAGGAGGTCTCCTCTGTGGTCTGCTTCCTACTGTCTCCTGC
AGCTTCCTTCATCACTGGACAGTCGGTGGATGTGGATGGGGCCGGAGTCTCTATACTCACTCGTATGAGGTACC
AGATCATGACAACCTGGCCCAAGGGAGCAGGGGACCTTTCTGTTGTCAAAAAGATGAAGGAGACCTTTAAGGAGAA
AGCTAAGCTCTGAGCTGAGGAAACAAGGTGTCCTCCATCCCCAGTGCCTTCACATCTTGAGGATATGCTTCTGT
ACTTTTTAAAGCTTATAGTTGGTATGGAAAACATTTTTCTTATTTTTAAGTGTTATTAATTATATCTATGGAAA
AACTATTCCTGAAATATATACAGTCTTATGTCCCAATCAGAGTCTTTTAACTATGATTTAAAAATGTATAAGTA
ACAGAAATTAACATATTTTAAATGACTTTACTTTTTATTTCTAAGAAAAGTATTTGAAAAATGGAATAATTTTAA
TCAATGATAATTCTAGGGATCATGAAGTCCCAGAAGATTTTATTATTTAATTGTAAAGGTAGAGGCCAGACGCAG
TGGCTCACGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGTAGGCGGGTCAGTTGAGGTCAGGAGTTCAAGACCA
GGCTGGCCAAACATGGTAAAACCTGTCTCTACTGAAAAACAACAAAAACAAAAACACAAATTAGTCGGGTGTGGT
GGCACACACCTGTAGTCCCAGGTACTTGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGCAGAGGTTGC
AGTGAGCTGAGATCATGCTACTGCAGTCCAGCCTGGGCTACAGAGTGAGACTGCATCTCAAAAAAACCCAAAA
ACAAAAACAAACAACAACAATAAAGGTAGAAAATAAACCTAAATTGTGTCGTAATTAAAGATTATTAA
AATTAGAATTATACAATGACTTATTTTTGGTGGCAAATACTTTAGGAGCAATAATGCCTTATGGTAATTATTGAT
GTATAGTTTCTTTTGTATGAAGTCAAATTTGTATAAATTCTCTTAATTCAAAGAAAAAGTTTTATGTGATTTA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1516

MKEHGGSIIVNIIVPTKAGFPLAVHSGAARAGVYNLTSLALEWACSGIRINCVAPGVIYSQTAVENYGSWGQSFF
EGSFQKIPAKRIGVP EEVSSVVCFLLSPAASFITGQSVDVDGGRSLYTHSYEVPDHDNWPKGAGDLSVVKKMKET
FKEKAKL

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FIGURE 1518

MRRGALLAGALAAYAAYLVLGALLVARLEGPHEARLRAELETTRAQLLQSPCVAAPALDAFVERVLAAGRLGRV
VLANASGSANASDPAWDFASALFFASTLITTVGYGYTTPLTDAGKAFSIAFALLGVPTTMLLLTASAQRLSLLLT
HVPLSWLSMRWGWDPRRAACWHLVALLGVVTVCFVPAVIFAHLEEAWSFLDAFYFCFISLSTIGLDYVPGEA
PGQPYRALYKVLVTVYLFGLVAMVLVLQTFRHVSDLHGLTELILLPPPCPASFNADEDDRVDILGPQPEHQQL
SASSHTDYASIPR

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FIGURE 1519

CCGTAGTCAACGTGCGCCTCCCCTCCCGGCTCCCAGCCGGGCGCGCCCCGGGCTCGAGTCTCTGCCTGCCCAGTG
GCAGCCCCGCCCTTCCTCTCCCAGTGGGCCCCCGGCGCCAGCTCCGCGTCCTGTGAGGTCCAGTGGCCGCCAG
GCGCGACCAGATCTGGGTGCGCGGAGAGCGCGCCATGGCGGCTGTGGGACCGCGGACCGGCCCCGGAACCGGCGCC
GAGGCTCTAGCGCTGGCGGCAGAGCTGCAGGGCGAGGCGACGTGCTCCATCTGCCTAGAGCTCTTTTCGTGAGCCG
GTGTCCGTGAGTGCGGCCACAGCTTCTGCCGCGCCTGCATAGGGCGCTGCTGGGAGCGCCCGGGCGCGGGGTCT
GTTGGGGCCGCCACCCGCGCGCCCCCTTCCCCTGCCCCTGTCCGAGTGCCGCGAGCCCGCGCGCCCCAGTCAG
CTGCGGCCCAACCGGCAGCTGGCGGCAGTGGCCACGCTCCTGCGGCGCTTCAGCCTGCCCCGGGCTGCCCCGGGA
GAGCACGGGTCTCAGGCGGCCGCGGCCCGGGCAGCGGCTGCCCGCTGCGGGCAGCATGGCGAACCTTCAAGCTC
TACTGCCAGGACGACGGACGCGCCATCTGCGTGGTGTGCGACCGCGCCCGCGAGCACCGCGAGCACGCCGTGCTG
CCGCTGGACGAGGCGGTGCAGGAGGCCAAGGAGCTCTTGGAGTCCAGGCTGAGGGTCTTGAAGAAGGAACTGGAG
GACTGTGAGGTGTTCCGGTCCACGGAAAAAGAAGGAGAGCAAGGAGCTGCTGGTGAGCCAGGCACCCGCAGGCCCC
CCGTGGGACATTACAGAGGCCTCGAGAACTCAGCACCCAGGGCTCGGTGTGTGTGGTGTGGAGTGTGTGCTATGGA
ACCGCAGAATCGATTTAGAAAGATAATAGAGTCCATATTATATAGGGTGTCCACATAATTGTTGTACAAACCAG
AGCTTTTTTAAAGTGAAAAGCAGTGCTAAAATAATTATTGCAAAACAACCTGGCTTAAACTGGAGCTGTCCAGCGA
ATCAGGACGCTCAGTCACTCTGATATTACGTAACATAACCAGTTAGGGCCTGCGGAAGCATCTTGTAATGGAACAC
ATTACTATTTCTGCAGAGAAACATGGATATTCAATAAGTGGAATATTAATAACAATAAAGAGCCTCATGGCATGT
TTTGTCAACAAAACAGTAGTTGAAAAAAA

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FIGURE 1520

MAAVGPRTGPGTGAEALALAAELQGEATCSICLELFREPVSVECGHSFCRACIGRCWERPGAGSVGAATRAPPFP
LPCPQCREPARPSQLRPNRQLAAVATLLRRFSLPAAAPGEHGSQAAAAAAAARCGQHGEPPFKLYCQDDGRAICV
VCDRAREHREHAVLPLDEAVQEAKELLESRLRVLKKELEDCEVFRSTEEKESKELLVSQAPAGPPWDITEA

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FIGURE 1521

CGAGCTGCCCCGGGGTCTCTCTGGTTTCCTAATCAGGGCAACGCCGCGGGAGAGAACCTTTACCTTGGCTGCACT
AAGTTCTCGGTGCCACTCCCTGGCAGGGCGGGACCTTGTTTAGGCCCTGTGATCGCGCGGTTTCGTAGTAGCGCAA
GGCGCAGAGTGGACCTTGACCCGCCCTAGGGCGGGAAGAGTTTGGCCCCGCGGGTCCCAAAGGGCAGAATGGACGG
GCTCCTAAATCCCAGGGAATCCTCTAAATTCATTGCAGAAAACAGTCGGGATGTGTTTATTGACAGCGGAGGCGT
ACGGAGGGTGGCAGAGCTGCTGCTGGCCAAGGCGGCGGGGCCAGAGCTGCGCGTGGAGGGGTGGAAAGCCCTTCA
TGAGCTGAACCCAGGGCGGCCGACGAGGCCGCGGTCAACTGGGTGTTTCGTGACAGACACGCTCAACTTCTCCTT
TTGGTCGGAGCAGGACGAGCACAAGTGTGTGGTGAGGTACAGAGGGGAAAACATACAGTGGGTACTGGTCCCTGTG
CGCCGCCGTCAACAGAGCCCTCGACGAAGGGATACCAATAACTAGTGCCTTCGTACTACGCGACAGTGACCCTGGA
TCAGGTTTCGGAATATACTTCGTTCTGACACAGACGTTTCCATGCCTTTAGTAGAAGAGAGGGCATCGGATTCTCAA
TGAAACCGGGAAAAATTCTGCTGGAGAAGTTTGGAGGCTCTTTTCTCAACTGCGTCCGAGAAAGTGAGAATAGTGC
GCAGAAGTTAATGCACCTGGTGGTTGAAAGTTTTCTTCTTACAGAGATGTGACTCTGTTTGAGGGGAAAAGAGT
TTCTTTTTTACAAACGAGCCCAAATCCTTGTAGCAGATACGTGGAGTGTATTGGAAGGAAAAGGAGATGGCTGCTT
CAAGGACATCTCCAGTATCACCATGTTTGCTGATTATAGATTACCTCAGGTTCTTGCTCATCTTGAGGCCCTGAA
ATACTCTGATGACCTACTGAAGAAGCTTCTCAAAGGAGAAATGCTCTCATATGGAGACAGGCAAGAGGTGGAAAT
CAGAGGGTGCTCGCTTTGGTGTGTTGAGCTGATCCGGGATTGTCTTCTGGAGCTTATTGAACAAAAGGGTGAAAA
ACCTAATGGAGAGATCAATTCCATTCTTCTGGATTATTACTTATGGGACTATGCCCATGACCATAGGGAAGATAT
GAAAGGAATTCGTTTCATCGCATACGTTGCATATATTATTGACCTCAAGTGTAACCTGATCCAAAGAAAACCCC
CTGCGTTTTATATCATATCATCTGTACAGTTTTGCTTTGATATTTAGAGAACATGATCGAGGTTATAGGAAATTG
ATTGCCCATCTCACTTGAAAAATACTTCCTAGGCCGGGCACAGTGGTTTATGCCTGTAATCCCAGCACTGTGGG
AGGCTGAGGCGGGTGGATCATCTGAGGTGAGGAGTTTGAGACCACCTGGCCAACATGGTGAAACCCCATCTCTAC
TAAAAATACAAAATTAGCTGGGCGTGGTGGCACGTGCCTGTAATCCCAGTTACTTGGGAGGCTGAGGCAAGAGAA
TCGCTTGAATCAGAAGGTGGAGGTTGCAGTGAGGCGAGATTAGGCCATTGCACTCCAGCCTCAGCAACAAGAGT
GAAACTTTGTCTCAAAAAACAACAACAACAACAACAACAACAACAACTTCCTAGGCCAGATGTGGTGGCTCAT
ATGTATAATCTTAGCACTTTGGGAGGCCAAGGCAGGAGGATTGCTTGAGGCGAGGAGTTCAAGACCAGCCTAGGC
AACATAGGGAGACCCCATCTCTACAAAAATTTAAAAATTAGCCTAGCATGGTGGCACGCTCTGTAATCCCAAT
ACGCGGTAGGCTGAGGCTGAGGAGGGTGGATTGCTTGAGCCAGGGGTTTGAGGCTGCAGTGAGCCACAGTCACG
CCACTGCATTCTATCCTGGGCAACAGATGGAGACCTTGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1522

MHLVVEFSPSYRDVTLFEGKRVSFYKRAQILVADTWSVLEGKDGCFKDISSITMFADYRLPQVLAHLGALKYSD
DLLKKLLKGEMLSYGDRQEVEIRGCSLWCVELIRDCLLELIEQKGEKPNGEINSILLDYWLWDYAHDHREDMKGI
PFHRIRCIYY

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FIGURE 1523

AAAAACAAGCTCAGCGATGCGGGCTCCAGAAGGCAGCGGTCTAGGCGAGGACGCCCGGCTGGACCAGGAGACCGC
CCAGTGGCTGCGCTGGGACAAGAATTCCTTAACTTTGGAGGCAGTGAAACGACTAATAGCAGAAGGTAATAAAGA
AGAACTACGAAAATGTTTTGGGGCCCGAATGGAGTTTGGGACAGCTGGCCTCCGAGCTGCTATGGGACCTGGAAT
TTCTCGTATGAATGACTTGACCATCATCCAGACTACACAGGGATTTTGCAGATACCTGGAAAAACAATTCAGTGA
CTTAAAGCAGAAAGGCATCGTGATCAGTTTTGACGCCCCGAGCTCATCCATCCAGTGGGGGTAGCAGCAGAAGGTT
TGCCCGACTTGCTGCAACCACATTTATCAGTCAGGGGATTCTGTGTACCTCTTTTCTGATATAACGCCAACCCC
CTTTGTGCCCTTCACAGTATCACATTTGAAACTTTGTGCTGGAATCATGGTAACTGCATCTCACAATCCAAAGCA
GGATAATGGTTATAAGGTCTATTGGGATAATGGAGCTCAGATCATTTCTCCTCACGATAAAGGGATTTCTCAAGC
TATTGAAGAAAATCTAGAACCGTGGCCTCAAGCTTGGGACGATTCTTTAATTGATAGCAGTCCACTTCTCCACAA
TCCGAGTGCTTCCATCAATAATGACTACTTTGAAGACCTTAAAAAGTACTGTTTCCACAGGAGCGTGAACAGGGA
GACAAAGGTGAAGTTTGTGCACACCTCTGTCCATGGGGTGGGTCATAGCTTTGTGCAGTCAGCTTTCAAGGCTTT
TGACCTTGTTCTCTCTGAGGCTGTTCTTGAACAGAAAGATCCGGATCCTGAGTTTCCAACAGTGAAATACCCGAA
TCCCGAAGAGGGGAAAGGTGTCTTGACTTTGTCTTTTGCTTTGGCTGACAAAACCAAGGCCAGAATTGTTTTAGC
TAACGACCCGGATGCTGATAGACTTGCTGTGGCAGAAAAGCAAGACAGTGGTGAATGGAGGGTGTTTTCAGGCAA
TGAGTTGGGGGCCCTCCTGGGCTGGTGGCTTTTTACATCTTGGAAGAGAAGAACCAGGATCGCAGTGCTCTCAA
AGACACGTACATGTTGTCCAGCACCGTCTCCTCCAAAATCTTGCGGGCCATTGCCTTAAAGGAAGGTTTTCATTT
TGAGGAAACATTAACTGGCTTTAAGTGGATGGGAAACAGAGCCAAACAGCTAATAGACCAGGGGAAAACCTGTTTT
ATTTGCATTTGAAGAAGCTATTGGATACATGTGCTGCCCTTTTGTCTGGACAAAGATGGAGTCAGTGCCGCTGT
CATAAGTGCAGAGTTGGCTAGCTTCCTAGCAACCAAGAATTTGTCTTTGTCTCAGCAACTAAAGGCCATTTATGT
GGAGTATGGCTACCATATTACTAAAGCTTCCTATTTTATCTGCCATGATCAAGAAACCATTAAGAAATTATTTGA
AAACCTCAGAACTACGATGGAAAAATAATTATCCAAAAGCTTGTGGCAAATTTGAAATTTCTGCCATTAGGGA
CCTTACAACCTGGCTATGATGATAGCCAACCTGATAAAAAAGCTGTTCTTCCCCTAGTAAAAGCAGCCAAATGAT
CACCTTCACCTTTGCTAATGGAGGCGTGGCCACCATGCGCACCAAGTGGGACAGAGCCCAAAATCAAGTACTATGC
AGAGCTGTGTGCCCCACCTGGGAACAGTGATCCTGAGCAGCTGAAGAAGGAAGTGAATGAAGTGGTCAGTGCTAT
TGAAGAACATTTTTTCCAGCCACAGAAGTACAATCTGCAGCCAAAAGCAGACTAAATAGTCCAGCCTTGGGTAT
ACTTGCAATTTACCTACAATTAAGCTGGGTTTAACTTGTTAAGCAATATTTTTAAGGGCCAAATGATTCAAAACAT
CACAGGTATTTATGTGTTTTACAAAGACCTACATTCCTCATTGTTTCATGTTTGACCTTTAAGGTGAAAAAGAA
AATGGCCAAACCCAAACAACTAACATTCCTACTAAAAAGTTGAGCTTGGACATATTTGAATTTTGTAAAGTGAA
GATTTTTAACTGACTAACTTAAAAAATAGATTGTAATTGATGTGCCTTAATTTGCATAAATCATAAATGTATG
TCCTCTCTGTAATTGTTTTAATGTGTGCTTGAAATATCCAGAAAACCTATGGAGTTAGTAAATTCTGGGCTGTCA
TATGTAGGATAGCCACTTTTTAGGTATATGTACATTTATATTTCTATCAATTCCCTAGAAAAGTAAAATAAATGAA
TAGATC

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FIGURE 1524

MAAPEGSGLGEDARLDQETAQWLRWDKNSLTLEAVKRLIAEGNKEELRKCFGARMEFGTAGLRAAMGPGISRMND
LTIIQTTQGFCRYLEKQFSDLKQKGIVISFDARAHPSGGSSRRFARLAATTFIGIPVYLFSDITPTFPVPFT
VSHLKLCAIMVTASHNPKQDNGYKVYWDNGAQIISPDKGISQAIEENLEPWPQAWDDSLIDSSPLLHNPSASI
NNDYFEDLKKYCFHRSVNRETKVKFVHTSVHGVGHSFVQSAFKAFDLVPPEAVPEQKDPDPEFFTVPKYPNPEEGK
GVLTLSFALADKTKARIVLANDPDADRLAVAEKQDSGEWRVFSGNELGALLGWLFTSWKEKNQDRSALKD TYML
SSTVSSKILRAIALKEGFHFEETLTGFKWMGNRAQLIDQGKT VLF AFEEAIGYMCCPFVLDKDGVSAAVISAEL
ASFLATKNLSLSQQLKAIYVEYGYHITKASYFICHQDET IKKLFENLRNYDGKNYPKACGKFEISAIRDLT TGY
DDSQPDKKAVLPTSKSSQMITFTFANGGVATMRTSGTEPKIKYYAELCAPPGNSDPEQLKKELNELVSAIEEHFF
QPQKYNLQPKAD

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FIGURE 1525

AGGAAGCTGCATGCATGAGACCCACAGACTCTTGCAAGCTGGATGCCCTCTGTGGATGAAAGATGTATCATGGAA
TGAACCCGAGCAATGGAGATGGATTTCTAGAGCAGCAGCAGCAGCAGCAACCTCAGTCCCCCAGAGACTCT
TGGCCGTGATCCTGTGGTTTCAGCTGGCGCTGTGCTTCGGCCCTGCACAGCTCACGGGCGGGTTCGATGACCTTC
AAGTGTGTGCTGACCCCGGCATTCCCGAGAATGGCTTCAGGACCCCGAGCGAGGGGTTTCTTTGAAGGCTCTG
TAGCCCGATTTCAGTGCCTAAGACGGATTCAAGCTGAAGGGCGCTACAAAGAGACTGTGTTTGAAGCATTTTAATG
GAACCCTAGGCTGGATCCCAAGTGATAATTCCATCTGTGTGCAAGAAGATTGCCGTATCCCTCAAATCGAAGATG
CTGAGATTCAACAAGACATATAGACATGGAGAGAAGCTAATCATCACTTGTGATGAAGGATTCAAGATCCGGT
ACCCCGACCTACACAATATGGTTTCATTATGTGCGGATGATGGAACGTGGAATAATCTGCCCATCTGTCAAGGCT
GCCTGAGACCTCTAGCCCCCAGCATACCCCGGCTCAGGGGACACGGACACAGGCCAGGGGAGTCAGAAACCTG
TGACAGCGTCTCAGGCTCTTCTGAGCTGCTCCAAAGTCTGTATTACCTCCAGGTGCCAAGAGAGCACCCACCC
TGCTTCGGACAACCTGACATAATTGCCAGCACGGCAGAGGAGGTGGCATCCACCAGCCCAGGCATCGACATTGC
AGATGAGATTCTCTAATGGAAGAAGATCCCTAATATGGGTCAAGATCCAGATGACTCTCCTGCTCCTTCGGGGA
AAGGACCTTGTATCTTGGAGTGAGGTACAGAAAGGATAGAGCCTGGGGGCAAAATGTCTAACTTGTCTACATGGG
GACCACAGTTCACATTATGCATCTCAGGCTCCACAGTGAGGCTGACAACTGCAATGGCAGTGCTTTTAAATGAG
ATTTGAGGATTACCAAGACCCATGGGGAACCGGGGCAGCAGGGAAGCCCTCGCGTGGTCTTGGATGAGGGGTGT
TAAATGTGTATCGTGTGTGGAACATGGGACAATTCCACGCACATCCCACCGAATCATCACGCATCCCATTGACT
GGCAAGTACTCCCGCCCCCTCTGAAAGCATGTACATCATGTAAATTTGCTTCTAACATCTGCTTCAAACCTGTC
TCTGGACTCCAAATTTGGATGGGTACAGCTCTGCAGAAAGTTTGTGTTGAGATGCTGGAAGAACAGCAGAGCCTC
CTGCACCCTCAGCAAGGGACCAGCTCCCAAGGAAAGGTCTTGTGTGACATTTGGAGAATCTTCCTTCATCCAG
ACAACCTCTACTCGAAGCAAGACGAAAGCAGGATGTGGCAGTTGCAGTGAGAAAGGAAAGGAAAGGTGGGCAGACT
CTGCTTTCTGGAATTTCTTACAAAGTAGAGCTCATGAACCTCTGTGCTGTCTTCTGGTAACATATCATCAGTGT
TTGTATTATCATGGTGTGGCACATGGATCCATGGCATTGGGTAAATCTGGTGGTTTTTACACATGGTCAGAATGTGT
TCAAATACATCTCATGATGGAGACAGTAACCAAGGTAATGTTTTGTTTTCAGCATTTTAAAAAGACTCCACTTAAC
ATTTATCTCAGAATCATGAGCCTCTCTCTAGTTGACAATTGTCATTGTTCCCCAGCCCCAAATTGAACCATACA
TTTATTTTCCAAAACAGAAATTGTTTCTGTAAACATATCCGACCTTCAAAAGAAGTGTGAGGTGGATTTTCCC
CCTTTTATTTGTCCTAAGATTCCAGGAGGCTGGCCTCCCAGCCCAGATAGCTCAGCCACCTCACCTGCCTATCAT
TCCTGCATTCTACTTTGAGGGTCTCATCATGCCCACTGGGTGTTGTTCTTAAGAACTGATTGATTAAAAAATT
TCCCAAAGTG

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FIGURE 1526

MYHGMNPSNGDGFLEQQQQQQQPQSPQRLLAVILWFQLALCFGPAQLTGGFDDLQVCADPGIPENGFRTPSGGVF
FEGSVARFHCQDGFKLKGATKRLCLKHFNGTLGWIPSDNSICVQEDCRIPQIEDAEIHNKTYRHGEKLIITCHEG
FKIRYPDLHNMVSLCRDDGTWNNLPICQGCLRPLAPQHTPAQGTRTQAQGSQKPVTASQALLSCSKVCIHLP GAK
RAPTLRLTTLT

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FIGURE 1527

CCCTTTAAAGGGTGACTCGTCCCACTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCCATGAAGTTTCGTCCCCTGCCTCCTGCTGGTGACCTTGTCTGCCTGGGGACTTTGGGTCAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGCTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCCAAGGCCACAGTGAAGCTCACAGAAGCAACACAGCTGGGAAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACCACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAAACCTTCCAGGCCCTGTGCGCCTTTCTCATCAGCTTCTTCCGAGGGTGA

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTTCTAATCAGATGCAACGGCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGAAAAGAAACCTTCCTTTCTGGAGTTTGCAGAGTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATAACAACCTACTTATTATCTGTAGAAGTTTTGCTTTGTTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTCATGAATTTCCAGTGTTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAGAA
TGATTCAGAAAT

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FIGURE 1528

MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCTMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFADPKFYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKKAWHCWKPFQALCAFLISFFRG

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FIGURE 1529

GGGAAAAATGCTCTTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAAACTAAA
GATTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACTTGGCAGCCAGAAC
TTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAGGCAGAAAC
CTCAGAGAGACTTCGTACTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTGCCCAGTGGGTGAA
GAACCAAGTTGGGGAGAAAGGTCTCTGGGGTCTGATCAATAATGCTGGTGTTCCTCGGCGTGCTGGCTCCCACTGA
CTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGGACTCATCAGTGTGACACTAAACAT
GCTTCCTCGACCTCAAGAGGATCAGCCTGGCCAGGGTGGCACAACCTCTTCCTTCCCCGTGCACAGCAGGAAAGCT
GCCATCAGTTGGAGGGGGCTATACTCCATCCAAATATGCAGTGGAAGGTTTCAATGACAGCTTAAGACGGGACAT
GAAAGCTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTTCAAAACAAACTTGGCAGATCCAGTAAAGGT
AATTGAAAAAAACTCGCCATTTGGGAGCAGCTGTCTCCAGACATCAAACAACAATATGGAGAAGGTTACATTGA
AAAAAGTCTAGACAAACTGAAAGGCAATAAATCCTATGTGAACATGGACCTCTCTCCGGTGGTAGAGTGCATGGA
CCACGCTCTAACAAGTCTCTTCCCTAAGACTCATTATGCCGCTGGAAAAGATGCCAAAATTTTCTGGATACCTCT
GTCTCACATGCCAGCAGCTTTGCAAGACTTTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGGCAGT
GTGACTCAGCTAACCACAAATGTCTCCTCCAGGCTATGAAATTGGCCGATTTCAAGAACACATCTCCTTTTCAAC
CCCATTCTTTATCTGCTCCAACCTGGACTCATTAGATCGTGCTTATTTGGATTGCAAAGGGAGTCCCACCATC
GCTGGTGGTATCCAGGGTCCCTGCTCAAGTTTTCTTTGAAAAGGAGGGCTGGAATGGTACATCACATAGGCAAG
TCCTGCCCTGTATTTAGGCTTTGCCTGCTTGGTGTGATGTAAGGGAAATTGAAAGACTTGCCCATTCAAAATGAT
CTTTACCGTGGCCTGCCCCATGCTTATGGTCCCCAGCATTTACAGTAACTTGTGAATGTTAAGTATCATCTCTTA
TCTAAATATTAAAAGATAAGTCAAACATTAAAAA

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FIGURE 1530

MLFWVLGLLILCGFLWTRKGKLIKIEDITDKYIFITGCDSGFGNLAARTFDKKGFHVIAACLTESGSTALKAETSE
RLRTVLLDVTDPENVKRTAQWVKNQVGEKGLWGLINNAGVPGVLAPTDWLTLEDYREPIEVNLFGLISVTLNMLP
RPQEDQPGQGGTTLPSPCTAGKLPSVGGGYTPSKYAVEGFNDSLRRDMKAFGVHVSCIEPGLFKTNLADPVKVIE
KKLAIWEQLSPDIKQQYGEGYIEKSLDKLKGNKSYVNMDLSPVVECMDHALTSLFPKTHYAAGKDAKIFWIPLSH
MPAALQDFLLLKQKAELANPKAV

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FIGURE 1531

CCCGACCCGTGCGAGGGCCAGGTCCGCGCCTGCCCCGCCAGGCGAAGCGAGGCGACCCGCGTGCGGGCCATGGCCTT
CGCTGCTGGGAGCCTACCCTTGGCCCGAGGGTCTCGAGTGCCCGGCCCTGGACGCCGAGCTGTTCGGATGGACAAT
CGCCGCGGGCCGTCCCCGGCCCCCGGGGGACAAGGGCTCCGAGAGCCGTATCCGGCGGGCCCATGAACGCCTTCA
TGGTTTGGGCCAAGGACGAGAGGAAACGGCTGGCAGTGCAGAACCCGGACCTGCACAACGCCGAGCTCAGCAAGA
TGCTGGGAAAGTCGTGGAAGGCGCTGACGCTGTCCAGAAAGAGGCCGTACGTGGACGAGGCGGAGCGGGCTGCGCC
TGCAGCACATGCAGGACTACCCCAACTAÇAAGTACCGGCCGCGCAGGAAGAAGCAGGCCAAGCGGCTGTGCAAGC
GCGTGGACCCGGGCTTCCTTCTGAGCTCCCTCTCCCGGGACCAGAACGCCCTGCCGGAAGAAGAAGCGGCAGCC
GGGGGGCGCTGGGGGAGAAGGAGGACAGGGGTGAGTACTCCCCGGCACTGCCCTGCCAGCCTCCGGGGCTGCT
ACCACGAGGGGCGGGCTGGTGGTGGCGGGCGGCACCCGAGCAGTGTGGACACGTACCCGTACGGGGCTGCCCCA
CACCTCCTGAAATGTCTCCCTGGACGTGCTGGAGCCGGAGCAGACCTTCTTCTCCTCCCCCTGCCAGGAGGAGC
ATGGCCATCCCCGCCGCATCCCCACCTGCCAGGGCACCCGTACTCACC GGAGTACGCCCCAAGCCCTCTCCACT
GTAGCCACCCCTGGGCTCCCTGGCCCTTGGCCAGTCCCCCGGCGTCTCCATGATGTCCCCTGTACCCGGCTGTCTC
CCCCATCTCCTGCCTATTACTCCCCGGCCACCTACCACCCACTCCACTCCAACCTCCAAGCCACCTGGGCCAGC
TTTCCCCGCCTCCTGAGCACCTGGCTTCGACGCCCTGGATCAACTGAGCCAGGTGGAACCTCTGGGGGACATGG
ATCGCAATGAATTCGACCAGTATTTGAACACTCCTGGCCACCCAGACTCCGCCACAGGGGGCCATGGCCCTCAGTG
GGCATGTTCCGGTCTCCAGGTGACACCAACGGGTCCACAGAGACCAGCCTCATCTCCGTCTGGCTGATGCCA
CGGCCACGTACTACAACAGCTACAGTGTGTCATAGAGCTGGAGGCGCCCCGTCCGGTCAGCCCTCGCGCCCTCTC
CTTCTTGTGCCCTTGAGTGGCAGAGGAGCCGTCCAGCCACACCAGCTTTCCTCCACCGCTCAGGGCAGGGAGGTC
TGAAGTGC GGCCCCAGAGCCTTTGGCCTAAGCTGGACTCTCCTTATCCGAGTGCCGCCTCTATCCCCTTCCCCAC
GTTCCAGCCCCTGCAGCCACATTTTAAGTATATTCTTCAAGTGAGTTTTCTCCAGCCCCTGAGAGTTGCTGT
CTCCCAGTGGAATGTTCACTGACGTCTTTTCTTGGTAGCCATCATCGAACTAATGGGGGGACAGACTTGATAGC
CAAGGTCCCTTCTGGTCCAGTTTTCTGATTTAGGGTCTCTCAAGATTAATAAAGGAAGATGGGGAAATTTGACT
CATTAATGAGCTCGCTAACCTACGATCTGGTGATAATTTTGTGTGCACAGCCCAAGGACCACGAGGCTTTCTGCA
CTTTCTGCACCCCTTCCAAAGTGACCACAAAATTTCAAAGGGACTCATACAATTTGAGAAAAAACAGTCAACCT
GATTTGAGAAATTAACCAGTATGGCTAACTATATCACAGAAAATGGGATTGAGTTAAACTATTTTATTTTAAAT
ATACATTTTAAAGCAGTTCTTTTTTTTTTGTTAATTTGTTTATTATACACACACTTCAAGAGCCACCGCGCCCAGC
CTACATTTATAATTTTCATTCTCTTTTACCTATAAAATTCAGTGTATTAGTTTCATTACATAGGAGAAATTATAT
TTCTAAACATTTTATGATGTTTAAAAACAAAACAGGCTGTTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1532

MASLLGAYPWPEGLECPALDAELSDGQSPPAVPRPPGDKGSESRIRRPMNAFMVWAKDERKRLAVQNPD LHNAEL
SKMLGKSWKALTLSQKRPYVDEAERLRRLQHMQDYPNYKYRPRRKKQAKRLCKRVDPGFLLSSLSRDQNALPEKRS
GSRGALGEKEDRGEYSPGTALPSLRGCYHEGPAGGGGGGTPSSVDITYPYGLPTPEMSPLDVLEPEQTFFSSPCQ
EEHGHPRRIPHLPGHPYSPEYAP SPLHCSHPLGSLALGQSPGVSMSPVPGCPPSPAYYSPATYHPLHSNLQAH
L
GQLSPPPEHPGFDALDQLSQVELLGDMRNEFDQYLNTPGHPDSATGAMALSGHVPVSQVTPTGPTETSLISVLA
DATATYYNSYSVS

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FIGURE 1533

CACTCCGGAGACTCGCGGTTGCTACGGCACCATGGCTGGAGAGGTACTTCTCAGCCCTCTAGCTCCAACCTGAGAA
CCCAGCCAGTCAGGAAGTCGCTACTTCGGGAACACCAACCAATCAGGGCGGCTGGCTCTCAGTCCCCTCGCTGTG
GTCGCGGACTGTGTCTGTTCCAGGAGTCCTTCGGCGGCTGTTGTGTTCAGTGGCCTGATCGCGATGGGGACAAAG
GCGCAAGTCGAGAGGAAACTGTTGTGCCTCTTCATATTGGCGATCCTGTTGTGCTCCCTGGCATTGGGCAGTGTT
ACAGTGCACCTCTTCTGAACCTGAAGTCAGAATTCCTGAGAATAATCCTGTGAAGTTGTCCTGTGCCTACTCGGGC
TTTTCTTCTCCCCGTGTGGAGTGGGAAGTTTGACCAAGGAGACACCACCAGACTCGTTTGCTATAATAACAAGATC
ACAGCTTCCTATGAGGACCGGGTGACCTTCTTGCCAACTGGTATCACCTTCAAGTCCGTGACACGGGAAGACACT
GGGACATACACTTGTATGGTCTCTGAGGAAGGCGGCAACAGCTATGGGGAGGTCAAGGTCAAGCTCATCGTGCTT
GTGCCTCCATCCAAGCCTACAGTTAACATCCCCTCCTCTGCCACCATTGGGAACCGGGCAGTGCTGACATGCTCA
GAACAAGATGGTTCCCCACCTTCTGAATACACCTGGTTCAAAGATGGGATAGTGATGCCTACGAATCCCAAAAGC
ACCCGTGCCCTTCAGCAACTCTTCCTATGTCTGAATCCCACAACAGGAGAGCTGGTCTTTGATCCCCTGTGAGCC
TCTGATACTGGAGAATACAGCTGTGAGGCACGGAATGGGTATGGGACACCCATGACTTCAAATGCTGTGCGCATG
GAAGCTGTGGAGCGGAATGTGGGGGTGTCGTGGCAGCCGTCCTTGTAACCCTGATTCTCCTGGGAATCTTGGTT
TTTGGCATCTGGTTTGCCTATAGCCGAGGCCACTTTGACAGAAACAAAGAAAGGGACTTCGAGTAAGAAGGTGATT
TACAGCCAGCCTAGTGCCCGAAGTGAAGGAGAATTCAAAACAGACCTCGTCATTCTGGTGAGCCTGGTTCGGCT
CACCGCCTATCATCTGCATTTGCCTTACTCAGGTGCTACCGGACTCTGGCCCCTGATGTCTGTAGTTTACAGGA
TGCCCTTATTTGTCTTCTACACCCACAGGGCCCCCTACTTCTTCGGATGIGTTTTTAATAATGTCAGCTATGTGC
CCCATCCTCCTTCATGCCCTCCCTCCCTTTTCTACCCTGCTGAGTGGCCTGGAACCTTGTTTTAAAGTGTATTTC
CCCATTTCTTTGAGGGATCAGGAAGGAATCCTGGGTATGCCATTGACTTCCCTTCTAAGTAGACAGCAAAAATGG
CGGGGGTTCGAGGAATCTGCACTCAACTGCCCACCTGGCTGGCAGGGATCTTTGAATAGGTATCTTGAGCTTGGT
TCTGGGCTCTTTCTTGTGTACTGACGACCAGGGCCAGCTGTTCTAGAGCGGGAATTAGAGGCTAGAGCGGCTGA
AATGGTTGTTTGGTGATGACACTGGGGTCCTTCCATCTCTGGGGCCACTCTCTTCTGTCTTCCCATGGGAAGTG
CCACTGGGATCCCTCTGCCCTGTCTCTGAATACAAGCTGACTGACATTGACTGTGTCTGTGGAATAATGGGAGC
TCTTGTGTGGAGAGCATAGTAAATTTTCAGAGAACTTGAAGCCAAAAGGATTTAAAACCGCTGCTCTAAAGAAA
AGAAAACCTGGAGGCTGGGCGCATGGCTTCACGCCTATAATCCCAGAGGCTGAGGCAGGCGGGATCACCTGAGGTC
AGGAGTTCAAGATCAGCCTGACCAACATGGAGAAAACCTACTAAAAATACAAAGTTAGCCAGGCATGGTGGTGCA
TGCCTGTAATCCCAGCTGCTTCAGGAGCCTGGCAACAAGAGCAAACTTCCAGTTCAAAAAAATGXAGAAAAGAA
ATTTTGGGGGGGAACAAGAAAGCTGGAGCTGGTGGCTTAGGCCATCACCTTCCCTTGGCTGGAACCTACTGGACA
GACCTTTTGTAGATGTGCCTGTGGTGTGTGGAGATGTGTGTAGTGGTCTTAGCTCTTTGTTGAGCTTGTGTGTG
TGTTGTGTAGTC

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FIGURE 1534

MGTKAQVERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLS CAYS GFSSPRVEWKFDQGD TTRLVCY
NNKITASYEDRVTF LPTGITFKSVTREDTGTYTCMVSEEGGNSYGEVKVKLIVLVPPSKPTVNIPSSATIGNRAV
LTCSEQDGSPPSEYTWFKDGIVMPTNPKSTRAFSNSSYVLNPTTGELVFDPLSASDTGEYSCEARNGYGTPMTSN
AVRMEAVERNVGVIVA AVLVT LILLGILVFGIWFAYS RGHFDRTKKGTSSKKVIYSQPSARSEGEFKQTSSFLV

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FIGURE 1535

TCGAGGTCGACATTTATACCGTCTGAGGGTAGCAGCTCGAAAGTAGAAGAAAGTGTGTCAGGGACGGCAGTATC
TCTTTGTGTGACCCTGGCGGCTTATGGGACGTTGGCTTCAGACCTTTGTGATACACCATGCTGCGTGGGACGATG
ACGGCGTGGAGAGGAATGAGGCCTGAGGTCACACTGGCTTGCTCCTCCTAGCCACAGCAGGCTGCTTTGCTGAC
TTGAACGAGGTCCCTCAGGTCACCGTCCAGCCTGCGTCCACCGTCCAGAAGCCCGGAGGCACTGTGATCTTGGGC
TGCGTGGTGGAACTCCAAGGATGAATGTAACCTGGCGCCTGAATGGAAAGGAGCTGAATGGCTCGGATGATGCT
CTGGGTGTCTCATCACCCACGGGACCCTCGTCATCACTGCCCTTAACAACCACACTGTGGGACGGTACCAGTGT
GTGGCCCGGATGCCTGCGGGGGCTGTGGCCAGCGTGCCAGCCACTGTGACACTAGCCAATCTCCAGGACTTCAAG
TTAGATGTGCAGCAGTGATTGAAGTGGATGAGGGAAACACAGCAGTCATTGCCTGCCACCTGCCTGAGAGCCAC
CCCAAAGCCCAGGTCCGGTACAGCGTCAAACAAGAGTGGCTGGAGGCCTCCAGAGGTAACCTGATCATGCCC
TCAGGGAACCTCCAGATTGTGAATGCCAGCCAGGAGGACGAGGGCATGTACAAGTGTGCAGCCTACAACCCAGTG
ACCCAGGAAGTGAAAACCTCCGGCTCCAGCGACAGGCTACGTGTGCGCCGCTCCACCGCTGAGGCTGCCCGCATC
ATCTACCCCCCAGAGGCCCAAACCATCATCGTCACCAAAGGCCAGAGTCTCATTCTGGAGTGTGTGGCCAGTGGA
ATCCCACCCCCACGGGTACCTGGGCCAAGGATGGGTCCAGTGTCAACGGCTACAACAAGACGCGCTTCCTGCTG
AGCAACCTCCTCATCGACACCACCAGCGAGGAGGACTCAGGCACCTACCGCTGCATGGCCGACAATGGGGTTGGG
CAGCCCGGGGACGCGGTTCATCCTCTACAATGTCCAGGTGTTTGAACCCCTGAGGTCACCATGGAGCTATCCAG
CTGGTCATCCCCTGGGGCCAGAGTGCCAAGCTTACCTGTGAGGTGCGTGGGAACCCCGCCCTCCGTGCTGTGG
CTGAGGAATGCTGTGCCCTCATCTCCAGCCAGCGCCTCCGGCTCTCCCGCAGGGCCCTGCGCGTGTCTCAGCATG
GGGCTTGAGGACGAAGGCGTCTACCAGTGCATGGCCGAGAACGAGGTTGGGAGCGCCCATGCCGTAGTCCAGCTG
CGGACCTCCAGGCCAAGCATAACCCCAAGGCTATGGCAGGATGCTGAGCTGGCTACTGGCACACCTCCTGTATCA
CCCTCCAAACTCGGCAACCCTGAGCAGATGCTGAGGGGGCAACCGGCGCTCCCCAGACCCCAACGTCAGTGGGG
CCTGCTTCCCCGCACTGTCCAGGAGAGAAGGGGACAGGGGCTCCCGCCGAGGCTCCCATCATCTCAGCTCGCCC
CGCACCTCCAAGACAGACTCATATGAACTGGTGTGGCGGCTCGGCATGAGGGCAGTGGCCGGGCGCCAATCCTC
TACTATGTGGTGAACACCGCAAGGTCACAAATTCCTCTGACGATTGGACCATCTCTGGCATTCCAGCCAACAG
CACCCTGACCCTCACCAGACTTGACCCCGGAGCTTGTATGAAGTGGAGATGGCAGCTTACAAGTGTGCGGGA
GAGGGCCAGACAGCCATGGTCACCTTCCGAAGTGGACGGCGGCCCAAACCCGAGATCATGGCCAGCAAAGAGCAG
CAGATCCAGAGAGACGACCCTGGAGCCAGTCCCCAGAGCAGCAGCCAGCCAGACCACGGCCGCTCTCCCCCCA
GAAGCTCCCGACAGGCCCACCATCTCCACGGCCTCCGAGACCTCAGTGTACGTGACCTGGATTCCCCGTGGGAAT
GGTGGGTTCCTAATCCAGTCTTCCGTGTGGAGTACAAGAAGCTAAAGAAAGTGGGAGACTGGATTCTGGCCACC
AGCGCCATCCCCCATCGCGGCTGTCCGTGGAGATCACGGGCTAGAGAAAGGCACCTCCTACAAGTTTCGAGTC
CGGGCTCTGAACATGCTGGGGGAGAGCGAGCCAGCGCCCCCTCTCGGCCCTACGTGGTGTGCGGCTACAGCGGT
CGCGTGTACGAGAGGCGCGTGGCAGGTCTTATATCACTTACAGGATGCGGTCAATGAGACCACCATCATGCTC
AAGTGGATGTACATCCCAGCAAGTAACAACAACACCCCAATCCATGGCTTTTATATCTATTATCGACCCACAGAC
AGTGACAATGATAGTGACTACAAGAAGGATATGGTGAAGGGGACAAGTACTGGCACTCCATCAGCCACCTGCAG
CCAGAGACCTCCTACGACATTAAGATGCAGTGCTTCAATGAAGGAGGGGAGAGCGAGTTCAGCAACGTGATGATC
TGTGAGACCAAAGCTCGGAAGTCTTCTGGCCAGCCTGGTTCGACTGCCACCCCAACTCTGGCCCCACCACAGCCG
CCCCCTTCTGAAACCATAGAGCGGCGGTGGGCACTGGGGCCATGGTGGCTCGCTCCAGCGACCTGCCCTATCTG
ATTGTCGGGGTCGTCTGGGCTCCATCGTTCTCATCATCGTCACTTTCATCCCTTCTGCTTGTGGAGGGCCTGG
TCTAAGCAAAAACATAACAACAGACCTGGGTTTTCTCGAAGTGCCCTTCCACCTCCTGCCGTATACTATGGTG
CCATTGGGAGGACTCCCAGGCCACCAGGCCAGTGGACAGCCCTACCTCAGTGGCATCAGTGGACGGGCTGTGCT
AATGGGATCCACATGAATAGGGGCTGCCCCCTCGGCTGCAGTGGGCTACCCGGGCATGAAGCCCCAGCAGCACTGC
CCAGGCGAGCTTCAGCAGCAGAGTGACACCAGCAGCCTGCTGAGGCAGACCCATCTTGGCAATGGATATGACCCC
CAAAGTCACCAGATCACGAGGGGTCCCAAGTCTAGCCCGGACGAGGGCTCTTCTTATACACACTGCCCCAGCAG
TCCACTCACCAGCTGCTGCAGCCCCATCACGACTGCTGCCAACGCCAGGAGCAGCCTGCTGCTGTGGGCCAGTCA
GGGGTGAAGAGAGCCCCGACAGTCTGTCTGGAAGCAGTGTGGGACCCTCCATTTCACTCAGGGCCCCATGC
TGCTTGGGCTTGTGCCAGTTGAAGAGGTGGACAGTCTGACTCCTGCCAAGTGAAGTGGAGGAGACTGGTGCCCC
CAGCACCCCTAGGGGCTACGTAGGACAGGAACCTGGAATGCAGCTCTCCCCGGGGCACTGGTGCCTGTGTCT
TTTGAAACACCACCTCTCACAATTTAGGCAGAAGCTGATATCCAGAAAGACTATATATTGTTTTTTTTTAAAA
AAAAAGTCG

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FIGURE 1536

MLRGTMTAWRGMREVTLACLLLATAGCFADLNEVPQVTVQPASTVQKPGGTIVILGCVVEPPRMNVTWRLNGKEL
NGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPATVTLANLQDFKLDVQHVIEWDEGNTAVIAC
HLPESHPKAQVRYSVKQEWLEASRGNYLIMPSGNLQIVNASQEDEGMYKCAAYNPVTQEVKTS GSSDRLRVRST
AEAARIITYPPEAQTIIIVTKGQSLILECVASGIPPRVTVAKDGSSVTGYNKTRFLLSNLLIDTTSEEDSGTYRCM
ADNGVGQPGA AVILYNVQVFEPPEVTMELSQLVIPWGQSAKLTCEVRGNPPPSVLWLRNAVPLISSQRLRLSRRRA
LRVLSMGPEDGQVYQCMANEVGSAAHVVQLRTSRPSITPRLWQDAELATGTPPVSPSKLGNPEQMLRGQPALPR
PPTSVGPASPQCPGEKGQGAPEAPIILSSPRTSKTDSYELVWRPRHEGSGRAPILYYVVKHKRVTNSSDDWTIS
GIPANQHRLTLTRLDPGSLYEVEMAAYNCAGEGQTAMVTFTGRRPKPEIMASKEQQIQRDDPGAS PQSSSQPDH
GRLSPPEAPDRPTISTASETSVYVTWIPRGNGGFPIQSFRVEYKKLKKVGDWILATSAIPPSRLSVEITGLEKGT
SYKFRVRALNMLGESEPSAPSRPYVVS GYSGRVYERPVAGPYITFTDAVNETTIMLKWMIYPASNNNTPIHGFYI
YYRPTDSDNDSYKKDMVEGDKYWHSISHLQPETS YDIKMQCFNEGGESEFSNVMICETKARKSSGQPGRLPPPT
LAPPQPPLPETIERPVGTGAMVARSSDLPYLIVGVVLGSIVLIIVTFIPFCLWRAW SKQKHTD LGFPRSALPPS
CPYTMVPLGGLP GHQASGQPYLSGISGRACANGIHMNRGCP SAAVGYPGMKPQQHCPGELQQQSDTSSLLRQTHL
GNGYDPQSHQITRGPKSSPDEGSFLYTL PDDSTHQLLQPHHDCCQRQE QPAAVGQSGVRRAPDSPVLEAVWDPPF
HSGPPCCLGLVPVEEVDSPDSCQVSGGDWCPQHPVGAYVQEPGMQLSPGPLVRVVSFETPPLTI

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FIGURE 1537

GCCCCGAGCTGCAGAGAGTCCCGCTGCGTCTCCGCCGCGTGCGCCCTCCTCGACCAGCAGACCCGCGCTGCGCTC
CGCCGCTGACATGTGTGCCGCTCAGATGCCGCCCCCTGGCGCACATCTTCCGAGGGACGTTTCGTCCACTCCACCTG
GACCTGCCCCATGGAGGTGCTGCGGGATCACCTCCTCGGCGTGAGCGACAGCGGCAAAATAGTGTGTTTTAGAAAG
AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAACTGAGCCACCATGA
GTTCTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCCTTGCTGGAAGTAGCATAGACCT
GCCACTCTTGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACATCGACTTTGCAGAAGA
AGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGTTACTTTGCAACAATTCACAC
TGACTCATCTCTGCTCCTTGCCGACATTACAGATAAAATTTGGACAGCGGGCATTGTGGGCAAAGTTTGCATGGA
TTTGAATGACACTTTTCCAGAATACAAGGAGACCACTGAGGAATCGATCAAGGAACTGAGAGATTTGTGTCAGA
AATGCTCCAAAAGAACTATTCTAGAGTGAAGCCCATAGTGACACCACGTTTTTCCCTCTCCTGCTCTGAGACTTT
GATGGGTGAACTGGGCAACATTGCTAAAACCCGTGATTGTCACATTGAGAGCCATATAAGTGAAAATCGTGATGA
AGTTGAAGCTGTGAAAACTTATACCCCAGTTATAAAAACTACACATCTGTGTATGATAAAAAACAATCTTTTGAC
AAATAAGACAGTGATGGCACACGGCTGCTACCTCTCTGCAGAAGAACTGAACGTATTCCATGAACGAGGAGCATC
CATCGCACACTGTCCCAATTCTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGA
AGTCAAGATAGGGCTGGGTACAGACGTGGCTGGTGGCTATTTCATATTCCATGCTTGATGCAATCAGAAGAGCAGT
GATGGTTTTCCAATATCCTTTTAATTAATAAGGTAAATGAGAAAAGCCTCACCTCAAAGAGTCTTCAGACTAGC
TACTCTTGAGGAAGCCAAGCCCTGGGGCTGGATGGTGAGATTGGAACCTTTGAAGTGGGCAAGGAATTTGATGC
CATCCTGATCAACCCCAAAGCATCCGACTCTCCCATGACCTGTTTTATGGGGACTTTTTTGGTGATATTTCTGA
GGCTGTTATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGGTTTATGTGGGCGGAAAGCAGGT
GGTTCCGTTTTCCAGCTCAGTGTAAGACCCTCGGGCGTCTACAAAGTTCTCCTGGGATTAGCGTGGTTGTGCATC
TCCCTTGTCGCCAGGAAAGAAACAATTCACATTACCAGCCTCCTCACCCCATCCTCCACCATTTCCTTAATGTTCC
ATGGTATTTTCAACGGAATACACTTTGAAAGACCTGAGTGTGAAAGACTGAGAGTTGAGGAGTTACTTTGTGGAT
CTTGTCAAATTTAGTGAAATGTGGAAGTCAACCAGACCAATGATGGAATTAAATGTAAATTCCAAGAGGGCTTT
CACAGTCCACAGGGTTCAAATGACTTGGGTAACAGAAGTTATTCTTAGCTTACCTGTTATGTGACAGTGATTTAC
CTGTCCATTTCCAACCCAAAAGCCTGTCAGAAAGCATTCTTTAGAGAAAACCACTTAACATTTGTTGTTAAACTC
CTGATCGCTACTCTTAAGAATATACATGTATGTATTATAGGAAATTTTTTCTCAATATTTGTATGATTGCTT
ACTGTTATTGTGCTGAGTGAGCTCCTGTGTGCTTCAGACAAAATAAATGAGACTTTGTGTTTACGTTAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1538

MCAAQMPPLAHIFRGTFVHSTWTCPEVLRDHLGVS DSGKIVFLEEASQQEKLAK EWCFKPCEIRELSHHEFFM
PGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFAEEVYTRVVRRTLKNGTTTACYFATIHTDSS
LLLADITDKFGQRA FVGKVCMDLNDTFPEYKETTESIKETERFVSEMLQKNYSRVKPIVTPRFSLS CSETLMGE
LGNI AKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVYDKNNLLTNKTVMAHG CYLSAEELNVFHERGASIAH
CPNSNLSLSSGFLNVLEVLKHEVKIGLGT DVAGGYSYSMLDAIRRAVMVSNILLINKVNEKSLTILKEVFRLATLG
GSQALGLDGEIGNFEVGKEFDAILINPKASDSPIDLFYGDFFGDISEAVIQKFLYLGDDRNI EEVYVGKQVVPF
SSSV

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FIGURE 1539A

ATCCTTGCCGCCCCGCCCCGCCCCAGCCGCGTCCCGGAGCCGTCGGGCATGGAGCCGTCGGAAGCAGTGCGCGCAGT
GGCTCATCCATTGCAAGGTGCTGCCCACCAACCACCGGGTGACCTGGGACTCGGCTCAGGTGTTTCGACCTTGCGC
AGACCCTCCGCGATGGAGTCCTGCTCTGCCAGCTGCTTAACAACCTCCGGGCGCACTCCATCAACCTGAAGGAGA
TCAACCTGAGGCCGAGATGTCCCAGTTTCTCTGTTTGAAGAACATAAGGACATTTCTCACGGCCTGTTGTGAGA
CGTTTGGAATGAGGAAAAGTGAACTTTTCGAGGCATTTGACTTGTTTGATGTTTCGTGACTTTGGAAAGGTTATAG
AAACATTATCACGACTTTCTCGAACACCTATAGCATTGGCCACAGGAATCAGGCCCTTCCCAACAGAAGAAAGCA
TTAATGATGAAGACATCTACAAAGGCCTTCCTGATTTAATAGATGAAACCCTTGTTGGAAGATGAAGAAGATCTCT
ATGACTGTGTTTATGGGGAAGATGAAGGTGGAGAAGTCTATGAGGACTTAATGAAGGCAGAGGAAGCACATCAGC
CCAAATGTCCAGAAAATGATATACGAAGTTGTTGTCTAGCAGAAATTAAGCAGACAGAAGAAAAATATACAGAAA
CTTTGGAGTCAATAGAAAAGTATTTTCATGGCACCCTAAAAGATTTCTGACAGCAGCAGAATTTGATTTCAGTAT
TCATCAACATTCTGAACTTGTAACCTTCATCGGAACCTAATGCAAGAGATTTCATGATTCCATTGTAAATAAAAA
ATGACCAGAACTTGTAACAGTTTTTATTAACATAAGGAAAGATTGGTTATTTACGGGCAGTACTGCAGTGGAG
TGGAGTCAGCCATCTCTAGTTTAGACTACATTTCTAAGTCAAAGAAGATGTCAAAGTGAATTAGAGGAATGTT
CCAAAAGAGCAAATAATGGGAAATTTACTCTTCGAGACTTGCTTGTTGTTTCTATGCAACGTGTTTTAAAGTACC
ACCTTCTCCTCCAGGAACCTGGTCAAACATACCACTGATCCGACTGAGAAGGCAAATCTGAACTGGCTCTTGATG
CCATGAAGGACTTGGCACAATATGTGAATGAAGTGAAGAGATAATGAGACCCTTCGTGAAATTAAACAGTTTC
AGCTATCTATAGAGAATTTGAACCAACCAGTTTTGCTTTTTGGACGACCTCAGGGAGATGGTGAATTCGAATAA
CCACTCTAGACAAGCATACCAAAACAAGAAAGGCATATCTTCTTATTTGATTGAGTGGCAGTGATCGTATGTAAGAGAA
AAGGTGATAACTATGAAATGAAGGAAATAATAGATCTTCAGCAGTACAAGATAGCCAATAATCCTACAACCGATA
AAGAAAACAAAAAGTGGTCTTATGGCTTCTACCTCATCCATACCCAAGGACAAAATGGGTAGAAATTTTATTGCA
AAACAAAAGATTTAAAGAAGAAATGGCTAGAACAGTTTGAAATGGCTTTGTCTAACATAAGACCAGACTATGCAG
ACTCCAATTTCCACGACTTCAAGATGCATACCTTCACTCGAGTCACATCCTGCAAAGTCTGCCAGATGCTCCTGA
GGGGAACATTTTATCAAGGCTATTTATGTTTTAAGTGTGGAGCGAGAGCACACAAAGAATGTTTGGGAAGAGTAG
ACAATTGTGGCAGAGTTAATTCTGGTGAACAAGGGACACTCAAACCTACCAGAGAAACGGACCAATGGACTGCGAA
GAACTCCTAAACAGGTGGATCCAGGTTTACCAAAGATGCAGGTCATTAGGAACCTATTCTGGAACACCACCCCGAG
CTCTGCATGAAGGACCCCTTTACAGCTCCAGGCCGGGGATACCGTTGAACCTCTGAAAGGAGATGCACACAGTC
TGTTTTGGCAGGGCAGAAATTTAGCATCTGGAGAGGTTGGATTTTTTCCAAGTGATGCAGTCAAGCCTTGCCCAT
GTGTGCCCAAACAGTAGATTATTCTTGCCAACCCTGGTATGCTGGAGCAATGGAAAGATTGCAAGCAGAGACCG
AACTTATTAATAGGGTAAATAGTACTTACCTTGTGAGGCACAGGACCAAAGAGTCAGGAGAATATGCAATTAGCA
TTAAGTACAATAATGAAGCAAAGCACATCAAGATTTTAAACAAGAGATGGCTTTTTTTCACATTGCAGAAAATAGAA
AATTTAAAAGTTAATGGAACCTGTGGAGTACTACAAGCATCATTCTCTCAAGGAAGGGTTCAGAACCTTAGATA
CAACTCTGCAGTTTCCATACAAGGAGCCAGAACATTGAGCTGGACAGAGGGGTAATAGAGCAGGCAACAGCTTGT
TAAGTCCAAAAGTGCTGGGCATTGCCATCGCTCGGTATGACTTCTGTGCAAGAGATATGAGAGAGTTGTCTTGT
TGAAAGGAGATGTGGTGAAGATTTACACAAAGATGAGTGCAATGGCTGGTGGAGAGGAGAAGTAAATGGCAGGG
TGGGCTGGTTCCATCCACATATGTGGAAGAGGATGAATAATTCAAATCCCGTGTGACCCCTGCACCAAAAT
TTCAGAGAAGGGATAAATAGAAGCCTGCACAGCATCGTGAATTAAGTGAAGTGTAAAAAGCTGCATTTCTGGC
TGTTCAACATCCTCCCTCCTTAGCCCTCCTAAGTCTTAATGCTGAGATTTCTAAAGATGCTGGTACTGACAGAT
TAATGGCTTGCTAGAGCTGTGCAAGAAACAGCCTGCCAGTCTGTCTATTGTGAGGACCAGGGCAAACCAAGAG
CTGTTCTTCCAGAAAGAGCCCTGCAAACACATTGGTTTCGTGCTTCCCTTTACTTCTTCTGGTCAGATACCATGAA
TGCCAGTCATCAGTAAATCTTAATACACTTTTGCTTTATTTCTCACATGCCATTACCAGATTATTTGATGGTACA
AAGAAGCAGAAAGTGTAATTTTCCCTTTTCCAGCATGACGAAAAATTGGAGTTCTGCCATTTGAGCAGCTTACTGG
AAAGATCCAGCCTTACTTGTCTTAAATTGTCCAACAAGGTGACTCATTGCCCCGCAAACACTTTTACCCCTCAGAT
GTTACTCATGATATTATAAAATATGAGGCCAGTGCTCAGGTTTGCATCATAAGTGAGCTATCCCTGAAGGGTTTT
AATTACTTATTTGGTGTCTGATTATATTGCAACCTTCTTTATAAAAGGTGAAAAAGCACACAAAAGAGAGGG
TGTCTTCATATTAAACCTTCACAACCTTCATGATTTTCATAGGATTATTTTGAAATATAGCACTTGACTTTATGA
AAGGATCTGGGCTAGGTATATTAGGGGTAGTTGCCAATAACCTGAAGAAGCTGGCATTGTTTACAGAAACAGATC
AAGGGCTATAATTTATGTCAATTTTATAGCAGCAGTATCTATTAATACATGCCTTTTCCCTCCCATCCACCTCCCC
GCACACACACAAAGATGACCTGGGACATGATTTTTTTTATTCCACATTTTCTTGGAGCACAAACAACCTTTGTTGA

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FIGURE 1539B

GGATTTTGAAGGAAAGCACAACTGGGTCCTTTATTCATTTCTGGGACAGAAAGAGGGTCAGTGGACTTTTGTGG
GCCTCCAGCTTCTCTCAGAGTCTCCCCCTCTGCAGCCCATCCTGGGAGTGTATTAAGTGGAGGGAAGATGGGTCT
TGCAGTACATTTGTTTTGCCAGCCATCACTCTTTTTTGTGAGGAGCCTAAATACATTCTTCCTGGGGTCCAGAG
TCCCCATTCAAGGCAGTCAAGTTAAGACACTAACTTGGCCCTTTCCTGATGGAAATATTTCTCCATAGCAGAAG
TTGTGTTCTGACAAGACTGAGAGAGTTACATGTTGGGAAAAAAGAAGCATTAACTTAGTAGAACTGAACCAGG
AGCATTAAAGTTCTGAAATTTTGAATCATCTCTGAAATGAAGCAGGTGTAGCCTGCCCTCTCATCAATCCGTCTGG
GTGCCAGAACTCAAGGTTTCAAGTGGACACATCCCCCTGTTAGAGACCCTCATGGGCTAGGACTTTTCATCTAGGAT
AGATTCAAGACCTTTACCTCAGAATTATGTAAACTGTGATTGTGTTTTAGAAAAATTATTATTGCTAAAAACCAT
TTAAGTCTTTGTATATGTGTAAATGATCAGAAAAATGTATTTTATAAAATGTTCTGTACAATAAAGTTACACCTC
AAAGTGTACTCTTGGAATGGATTCTTTCCTGTAAAGTCTTATCTGCGACTCTGTCTCGGGAATGTTTTGTCTGTT
GCCGTCAGCCGAACCTTTGTTATGGAGGGAGCAGCCTCACACAAGCAGAAACACTCCTGTGGATGGTATTGTAGCA
TGTATTGTTTTATTTTAGTCAATAGACCTCTCCTTATAAATGGTGTTTAGTCTTCCTGTTGCATTTTCATGGGCCT
GGGGGTTTCCTAGCAGAGGATATTGGAGCCCCTTTTTGTGACATTACCAATTACATCTTTGTCCACGTTTAATAC
TTTGTGTTTTGAAAAATTTAAATGCTGCAGATTTGTGTAGAGTTCTAATACCAAAGACAGAAGTAAATGTTTTCCAT
ATACTTTGTCTTGCCTGTATGCAGCCCTTGTGTAATATGGTGAATTAGAGTGGTATTTCACTTTGTATTATTTTG
TAAATATGTCAATATAATAAATAGTGACTAAAAAAAAAAAAA

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FIGURE 1540

MEPWKQCAQWLIHCKVLEPTNHRVTWDSAQVFDLAQTLRDGVLLCQLLNNLRAHSINLKEINLRPQMSQFLCLKNI
RTFLTACCETFGMRKSELF EAFDLFDVRDFGKVIETLSRLSRTPIALATGIRPFPTEESINDEDIYKGLPDLIDE
TLVEDEEDLYDCVYGEDEGGEVYEDLMKAEEAHQPKCPENDIRSCCLAEIKQTEEKYTETLESIEKYFMAPLKRF
LTAAEFDSVFINIPELVKLHRNLMQEIHDSIVNKNDONLYQVFINYKERLVIYGQYCSGVESAISSLDYISKSKE
DVKLKLEEC SKRANNGKFTLRDLLVPMQRVLYHLLQELVKHTTDPTEKANLKLALDAMKDLAQYVNEVKRDN
ETLREIKQFQLSIENLNQPVLLFGRPQGDGEIRITTLDKHTKQERHIFLFDLAVIVCKRKGDNYEMKEIIDLQQY
KIANNPTTDKENKKWSYGFYLIHTQGQNGLEFYCKTKDLKKKWLEQFEMALSNIRPDYADSNFHDFKMHTFTRVT
SCKVCQMLLRGTFYQGYLCFKCGARAHKECLGRVDNCGRVNSGEQGTLLKLEKRTNGLRRTPKQVDPGLPKMQVI
RNYSGTPPPALHEGPPLQLQAGDTVELLKGDASHLFWQGRNLASGEVGFPPSDAVKPCPCVPKPVDYSCQPWYAG
AMERLQAETELINRVNSTYLVRHRTKESGEYAI SIKYNNEAKHIKILTRDGFFHIAENRKFKSLMELVEYYKHHS
LKEGFRITLDTTLQFPYKEPEHSAGQGRGNRAGNSLLSPKVLGIAIARYDFCARDMRELSLLKGDVVKIYTKMSANG
WWRGEVNGRVGWFPSTYVEEDE

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FIGURE 1541

CTCAGACCATAGCCTAAACCTCATCGTCCCTATCTGGCCACCTGGAGCATCCACCTAGAGGATGCCACTAGAGG
AGCCTGGATGCCTGTAGAGTCTGGGGGGCTAGAGTCTTCCCTTTTCAGGCCCAAGAAAGGGAATCAGGCAGACTG
CTGAACAGTAAGTATGACTTTGTAGGCAGCCTTTAGACATAGCTATTACCAAGCTACCGTAAGCTTTTCACAGT
TTGCTTTTAAACAGGCTCTTGTAGGCTGCACATGCTTCCCTAGAACTTGTCTTCCCTTCTGCGATGTCACACCCC
TAAGCTGGTCCTGAAAAATTGGACATCTCGTCACTCTGTATTCACTGTTCCCTCCCAACAAGAGAGTTGTACCCTG
TTTTTAGCTACCCTGGGGAGAGGCTGGCTCAGGAGTCTAGAACAGGGCTAGATTGGGGGGCAACAAGGGGCTACC
ATTTCCCTCCCTTTAGGCTCATGGAGAGTCTACATCCAGCCTTATCTTCTCCCATGGGAAACCAAGGAGGCTCA
ACATGGTGAGAAGAGAGCATGACATCCAGAGCCAGGCAGCCTACAGCACCTGGGACCACCAGGGAATGGGCACAC
AGCAAGGGTTGGCCTCCCTTCTTGGGCAGTGGAAAAAGTCTAGAACAGGAGTCCATGCTTCTCCACCAAAACATGA
GTACCTGCTGCCCTTGGCCTTGTGCTGAATGCCAAGGACCAAGAAGATGCCTCCCCACCCAGTGTGGGAAATTC
ACAGGAGTGGCCTGCAGTGCCATCCTCATGTACATATTCTGCACTGATTGCTGGCTCATCGCTGTGCTCTACTTC
ACTTGGCTGGTGTTTGACTGGAACACACCCAAAGAAAGGTGGCAGGAGGTACAGTGGGTCCGAAACTGGGCTGTG
TGGCGCTACTTTTCGAGACTACTTTCCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAACATATATC
TTTGGATACCACCCCATGGTATCATGGGCCTGGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAAGTGAGC
AAGAAGTTCCAGGCATACGGCCTTACCTGGCTACACTGGCAGGCAACTTCCGAATGCCTGTGTTGAGGGAGTAC
CTGATGTCTGGAGGTATCTGCCCTGTCAGCCGGGACACCATAGACTATTTGCTTTCAAAGAATGGGAGTGGCAAT
GCTATCATCATCGTGGTGGGGGTGCGGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCAGTCACCCTGCGG
AACCGBAAGGGCTTTGTGAACTGGCCCTGCGTCACTGGAGCTGACCTGGTTCCCATCTACTCCTTTGGAGAGAAT
GAAGTGTAACAGAGGTGATCTTCGAGGAGGGCTCCTGGGGCCGATGGGTCCAGAAGAAGTCCAGAAATACATT
GGTTTCGCCCCATGCATCTTCCATGGTCGAGGCCTCTTCTCCTCCGACACCTGGGGGGCTGGTGCCCTACTCCAAG
CCCATCACCCTGTTGTGGGAGAGCCCATCACCATCCCCAAGCTGGAGCACCCAACCCAGCAAGACATCGACCTG
TACCACACCATGTACATGGAGGCCCTGGTGAAGCTCTTCGACAAGCACAAAGACCAAGTTCGGCCTCCCGGAGACT
GAGGTCCTGGAGGTGAACTGAGCCAGCCTTCGGGGCCAACTCCCTGGAGGAACCAGCTGCAAATCACTTTTTTGC
TCTGTAAATTTGGAAGTGTGATGGGTGTCTGTGGGTATTTTAAAGAAATTATAACAATTTTGCTAAACCATTAC
AATGTTAGGTCTTTTTTAAGAAGGAAAAAGTCAGTATTTCAAGTCTTTCACTTCCAGCTTGCCCTGTTCTAGGT
GGTGGCTAAATCTGGGCCTAATCTGGGTGGCTCAGCTAACCTCTCTTCTTCCCTTCCCTGAAGTGACAAAGGAAAC
TCAGTCTTCTTGGGGAAGAAGGATTGCCATTAGTGACTTGGACCAGTTAGATGATTCACTTTTTTGCCCTAGGGA
TGAGAGGCGAAAGCCACTTCTCATACAAGCCCTTTATTGCCACTACCCACGCTCGTCTAGTCTGAAACTGCA
GGACCAGTTTCTCTGCCAAGGGGAGGAGTTGGAGAGCACAGTTGCCCCGTTGTGTGAGGGCAGTAGTAGGCATCT
GGAATGCTCCAGTTTGATCTCCCTTCTGCCACCCCTACCTCACCCCTAGTCACTCATATCGGAGCCTGGACTGGC
CTCCAGGATGAGGATGGGGGTGGCAATGACACCCTGCAGGGGAAAGGACTGCCCCCATGCACCATTGCAGGGAG
GATGCCGCCACCATGAGCTAGGTGGAGTAACTGGTTTTTCTTGGGTGGCTGATGACATGGATGCAGCACAGACTC
AGCCTTGGCCTGGAGCACATGCTTACTGGTGGCCTCAGTTTACCTTCCCCAGATCCTAGATTCTGGATGTGAGGA
AGAGATCCCTCTTCAGAAGGGGCTGGCCTTCTGAGCAGCAGATTAGTTCCAAAGCAGGTGGCCCCCGAACCCTAA
GCCTCACTTTTCTGTGCCTTCTGAGGGGGTTGGGCCGGGGAGGAAACCCCAACCCTCTCCTGTGTGTTCTGTTAT
CTCTTGATGAGATCATTGCACCATGTCAGACTTTTGTATATGCCTTGAAAATAAATGAAAGTGAGAATCCAAAAA
AAAAAAAAAAAAA

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FIGURE 1542

MYIFCTDCWLI AVL YFTWL VFDWNTPKKGRRSQVVRNWAVWRYFRDYFP IQLVKTHNLLTTRNYIFGYHPHGIM
GLGAF CNFSTEATEVSKKFGIRPYLATLAGNFRMPVLREYLMSSGGICPVSRDTIDYLLSKNGSGNAIIIVVGGA
AESLSSMPGKNAVTLRNRKGFVKLALRHGADLVPIYSFGENEVYKQVIFEEGSWGRWVQKKFQKYIGFAPCIFHG
RGLFSSDTWGLVPYSKPITTVVGEPITIPKLEHPTQQDIDLYHTMYMEALVKLFDKHKTKFGLPETEVLEVN

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FIGURE 1543

CTCAGGAACAGCCTTCTCCTGCCTCCTCTGCACCTGGACAACCTCAACTCCTGCCAAGATGTCCTGCCAGCAGAAC
CAGCAGCAGTGCCAACCCCCACCCAAGTGTCCCTCACCCAAGTGTCCCCAAAGAGCCCAGTACAGTGTCTGCCT
CCAGCTTCCTCTGGCTGTGCCCCAAGCTCTGGGGGCTGTGGCCCTAGCTCCGAGGGCGGCTGCTTCCTGAACCAC
CACAGGCGCCACCACCGATGCCGGCGCCAGAGGCCCAACTCCTGTGACAGGGGCAGTGGTCAGCAAGGCGGGGGC
TCTGGCTGCGGCCATGGCTCTGGAGGCTGCTGCTTGACCTGGATCCTGATGCTGAGACAAGCGATTTTGGAGGAAA
CAAGAATCCCAAGGGCCCAGGAAAACCCCATCTTGATGCATGAGTTCCCAGATACCCTCTTCTGGCTTTCACAGG
CTGAGCTAGGGGTTTTCTGTGGAAGGTCTGAGCTCTCCCCAGAAGGCACTTCCTGTCTGATGTCCAGGATGTCA
CATGTTCCCTTACCCCTGTACCTGTGAAGGATTGGCAGTGCTTGTGCCTGACCTCATCAAAAAATAAAGCTCCTT
GTCTCATTAATAAAAAA

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FIGURE 1544

MSCQQNQQQCQPPPKCPSPKCCKSPVQCLPPASSGCAPSSGGCGPSSEGGCFLNHHRHHRCRRQRPNSCDRGS
GQQGGGSGCGHSGGGCC

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FIGURE 1545

TTCTTTTCCCTGGGTCCTGGGAGCTGAGGCAGGAGGAGAAGTGGGGGGATCGGAGTGGAGAGGGAGGGCGGGAAA
TCCCAGTGTGGGGAGAGGGTCGATCAGACCGGCTTGGCTCCCTGGGCACCTCTGTCAGAGCCCCGCCAGGGCTG
CGTGGCCGCCCATATAAGTGGCTCTGGGCTGAGACGGAGAAGTCAGTGCCCGTGCTCCACACGCTGCTGCCCTCCAT
CACTGCCATCGCGATCCTGCAGCTATGTCCTACCCTGTGACCAGTCAGCCCCAGTGCGCCACCACCAGCTGCTAC
CAGACCCAGCTCAGTGACTGGCACACAGGICTCACGGACTGCTGCAACGACATGCCTGTCTGTCTGTGCGGCACT
TTTGCTCCTCTGTGCCCTTGCTGCGCATCTCCGACGACTTTGGCGAGTGCTGCTGCGCGCCCTACCTGCCCGGA
GGCCTGCACITCCATCCGCACCGGCATGCGGGAGCGCTACCACATCCAGGGCTCCGTGCGGCACGACTGGGCGGCC
CTCACCTTTTGTCTGCCCTGCGCCCTCTGCCAGATGGCGCGGGAAGTGAAGATCCGAGAGTAAAGGAAGTTCCTG
TCTTCCCCGTCCTTTTCCACCAGTCTCGCCTCTGGCCTTCTCTGGCCACTCCTGGGAGGGACTGCCTCACCACCC
CTGTCCCGCTGCCAGAAATACACCCACAATAAAAACCTGAAAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1546

MGVEREGGKSQCGERVDQTGLAPWAPLSEPRPGLRGRPYKWLWAETEKSVPVSPHVCLHHCHRDPAAMSYPVTSQ
PQCATTSCYQTQLSDWHTGLTDCCNDMPVCLCGTFAPLCLACRISDDFGECCCAPYLPGGLHSIRTGMRERYHIQ
GSVGHDDWAALTFCCLPCALCQMARELKIRE

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FIGURE 1547

CCCACGCGTCCGGAGAGGGCGCACCCGGGCGGCCAGCTGGGCTCGGAGCGGAACGGGGTCAGGATGGACGAGGACG
TGCTAACCCACCTGAAGATCCTCATCATCGGCGAGAGTGGGGTGGGCAAGTCCAGCCTGCTCTTGAGGTTACAG
ATGATACGTTTGTATCCAGAACTTGCAGCAACAATAGGTGTTGACTTTAAGGTGAAAACAATTTTCAGTGGATGGAA
ATAAGGCTAAACTTGCAATATGGGATACTGCTGGTCAAGAGAGGTTTAGAACATTAACTCCCAGCTATTATAGAG
GTGCACAGGGTGTATATTAGTTTATGATGTCACAAGAAGAGATACATTTGTTAACTGGATAATTGGTTAAATG
AATTGGAAACATACTGTACAAGAAATGACATAGTAAACATGCTAGTTGGAAATAAAATCGATAAGGAAAAATCGTG
AAGTCGATAGAAATGAAGGCTGAAATTTGCACGAAAGCATTCCATGTTATTTATAGAGGCAAGTGCAAAAACCT
GTGATGGTGTACAATGTGCCTTTGAAGAAGCTTGTGAAAAGATCATTCAGACCCCTGGACTGTGGGAAAAGTGAGA
ACCAGAATAAAGGAGTCAAACTGTCAACAGGGAAGAAGGCCAAGGAGGAGGAGCCTGTGGTGGTTATTGCTCTG
TGTTATTAACCTCTGGGAAATTCATCTCTTGCATATTTGATCAGATAGTGACATCTTTCTGTATATAAACTCTTT
AACTGCTATTTTAGGGACCTTGCAGTTTGCACATAATTGTTTTATATCATAGCAGTAAATATTTGCAAGAAATCC
CACTCATCGACCCCGGGTAAAAATGTTATGGTAAGCATGCACAGTTTGCAGTCTACAGTTTTTTTATGTAGCACAA
AATAGGTGTACCTTTATAAGTACATTCAATTTTATGATTTACATTTATCATGTAATTTTTAAAAAATCCATCTA
TCTAGGATATGTTGATACAAAGTCTGCTTTTGTCTATTCTTTTTGCTTAAATACTCCTATCATTTTTCTGAATTACT
TGGTATTTAGAACTCCTAGCACCCAGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTCAGGAATA
ATAAAGAGCATGATTCACAGCTTTTCTGGGATGTTTGAGATTCTTTTTTAGTACTAAGCAAAATTTCTCATCACA
GAATGTAGCCAGGCCAATTTATAACTAAATCTCTATTTGTTTCGGATGATGCTTCTAAAACAGCATTGATAGGTT
AAAGAAGCTTGGTATTTTAAATTTACTTCAATGATTAGCTCAGTTGCTTAACTGGAGTTTAAATCCTGTGATATG
TACATTGGATTGATGACTGTGCAGCATTTTATGTTATGTGGTGTGTTGGCAGAATGACAATAAGGTTTCCCCCAT
TTTGGTTTCAGGAGGACATGAATAGTGTGTTTATTGTAACCTCCTCATACACTTTTAAACCAACATCTTTTTTCA
TAAATGTTGGTAGTGTGTTGTCCAGGTACCTTAACTGTAGCTTGTGTAATGTTGATGAATATCTGTATCTTACGGC
TTCCATAATGGCTAGTTGATATTCAAAAACCTATTTCTGTGTTTTGAGGGGTGGGGAAAAAACAATAAGTGAT
AATTTGAAAAAGGCATATTGCTTCCAGATTCTGATGTGTGAGGGAAAATACTGTCACAATGAAAATCTTGACAAT
TTACTTAACAAGTAACCAGTAGTTCATCAAAACCAACTTGTACAGACTAATAAATCTTTTTCACAGTATTCAGTT
TTCTCACCTCTTGCTATTGTATATTGTAGATTTTTTTCATTCATGTGTTATTTAATTTACACTGATCTCTGCTAT
TTTAACCCCCCAAATAAGTTATTTGTCCTTTAAGGTTGGTTACTATAATACCCCTCAGTAAGATTCCAGTATTAA
TTTCTGGGCAGTTTGTCTCTGTATACAATTGCAAATGATAAGCATTTTTGTGAGTGACCACCTTTGCAATATGT
TTGTTAATTTACTTCATGTGTTGGTCTTTCTGAAATGTACATCTTTACATATAAAAAACCTCACATTCTACTTGAT
TTACACTTCCTAGTCTACATTACATGTGGTTGAAGGTTTTATACATTCTATATGCTTTTACTAAATATACAAGAT
TTACTACTAGAAATTTGGAGAAAGAACTAACACATGTACTTGTGATTTGTTTATGTTATATTTAAACTTGAGA
TTTGTGTATTTATGTAGAGTCTGTATTGACAAGACTGTTGTTTTTGTCTCCTTGAGCTATATAATAATCTGTGTA
TTGGATTGTTGTCTTGATTGGTCTAAATTTGAATATATATGAGTTACTTGAATATAACAAAAATGAATTTTGT
TGATAGATTTATATTGTAACCTTTTTCTAGTTCTTGAATAAATATAGCCTGCTTTCCCTAGATGCATTTGTGTAG
GAAGTATATACATTTCCCTATTACTCTCATCAGCTGAAGAATATGTACTATTGTGTTACTCAAATTATGTGGCTT
TCATTTTGTGTTTTGTTGCAAGCTTAGTGTGTTTGTAGTGGAGGTTTTGTAATGAAACAGTTGTAATATCTAAG
GTCAGGCACCTAGTAACAGGGTTTTGTTAATCTTTTTCAGAATCATTGAAGCAGTCTTAAAGGGTCTTTTGCAGA
TGGTACAAATTAGAACAATTAGAATATAGTATTTTGTAGTTCTAGTAGTACTGAGATTGACCCAAACAAATAAAAA
ACTATTCAATTTCTGAGTAATAGTTAAAAA

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FIGURE 1548

MDEDVLTTLKILIIIGESGVGKSSLLLRFTDDTFDELAATIGVDFKVKTI SVDGNKAKLAIWDTAGQERFRTLTP
SYRGAQGVILVYDVTRRDTFVKLDNWLNELETYCTRNDIVNMLVG NKIDKENREVDRNEGLKFARKHSMLFIEA
SAKTCDGVQCAFEELVEKIIQTPGLWESENQNGVKLSHREEGQGGGACGGYCSVL

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FIGURE 1549A

CCACGCGTCCGCCGGATCAGAGAGTGCTCCGAGCTGGGTTGCCCCACTGTGCTTGTATCTGCACTCTCCAACACT
AGGCATCATTGACATGTTAAAGCTTAGCCAAATAGAATTGTTCTTTGTTCATTCTTTTTTAACTTTTACTTATTC
ATTAGGATGATTTTATAATATATTTCTTGTTTAGAGGAAACAGGAACAATGGCTACCGAGAGTACTCCCTCAGA
GATCATAGAAAAGAGAAAAGAAAAAGTTGCTTGAAATCCTTCAACATGATCCTGATTCTATCTTAGACACGTTAAC
TTCTCGGAGGCTGATTTCTGAGGAAGAGTATGAGACTCTGGAGAATGTTACAGATCTCCTGAAGAAAAGTCGGAA
GCTGTTAATTTTGGTACAGAAAAAGGGAGAGGCGACCTGTCAGCATTTTCTCAAGTGTATTATTAGTACTTTTCC
ACAGTCAGCTGCCATTTGCGGCTTAAGGCATGAAGTTTTAAACATGAGAATACAGTACCTCCTCAATCTATGGG
GGCAAGCAGTAATTCAGAAAGATGCTTTTTCTCCTGGAATAAAACAGCCTGAAGCCCCCTGAGATCACAGTGTCTT
CAGTGAGAAGGAACACTTGGATTTGGAACCTCTGAGTTTTTTCAGGGACAAGAAAAGTATAGTATAGGGAAACAGC
TTTGCTGCCAGGAAGAATGAGAAGGAATATGACACACCAGAAGTCACATTATCATATTCAGTTGAGAAAGTTGG
ATGTGAAGTTCCAGCAACTATTACATATATAAAAGATGGACAGAGATATGAGGAGCTAGATGATTCTTTATACCT
AGGAAAAGAGGAATATCTAGGATCTGTTGACACCCCTGAAGATGCAGAAGCCACTGTGGAAGAGGAGGTTTATGA
TGACCCAGAGCACGTTGGATATGATGGTGAAGAGGACTTCGAGAATTCAGAAACCACAGAGTTCTCTGGTGAAGA
ACCAAGTTATGAGGGATCAGAAACCAGCCTTTTCATTGGAGGAGGAACAGGAGAAAAGTATAGAAGAAAGAAAAA
GGTGTTTAAAGATGCTCTGTTATGTTTGAACATGGATAGAAGCAGAAAGGTTCTGCCAGATTTTGTTAAACAATT
CTCCTTAGATCGAGGATGTAAGTGGACCCCTGAGAGTCCAGGAGACTTAGCCTGGAATTTCTCTGATGAAAGTTCA
AGCACGAGATGTGACGGCTAGGGATTCAATCCTCAGTCACAAGGTTCTGGATGAAGATAGCAAGGAGGATTGCT
GGCTGGAGTGGAGAATTTGGAATTCGAGACATACAAACCATTAATCCCCTTGACGTGCTTTGTGCCACCATGCT
GTGTTTCAGATAGCTCTTTGCAACGCCAAGTCATGTCAAACATGTATCAGTGCCAGTTTGCTCTTCCCCTGCTACT
GCCAGATGCAGAAAACAACAAAGCATCTTAATGCTGGGGGCCATGAAAGACATTGTGAAGAAGCAGTCAACACA
GTTTTTCAGGGGGGCTACAGAGGATACAGAAAAGTTTCTGACTCTCATGAAGATGCCTGTCATCTCTTTTGTGCG
TCTAGGATACTGTAGCTTCTCTAAGTCCAGAATCCTCAACACACTTCTCAGCCCTGCCAGTTGAAATTACACAA
AATCTTTCTTCATCAAGATTTGCCTCTTTTGGTGCTTCCCCGGCAAACTCTCTGATGGCCTGGTTGAGATAACATG
GTGTTTTCTCTGATAGCGATGATAGAAAGGAAAACCCCTTTTTCCAAAAGCCTGTTGCTCTGGCTAATCTCCGTGG
AAATCTAGAAAGTTTTTGGACTCAGTTTGTTTTTTGATGGAAGTTTCTTCAGCTGTGTTTTTTTTTCACTGACTG
TTTAGGTGAGAAGGAATGGGACTTGCTAATGTTTTTAGGAGAGGCTGCCATTGAAAGATGCTACTTTGTTCTCAG
TTCCCAAGCCAGGGAGAGTGAAGAGGCTCAAATTTTTTCAGAGGATACTGAACTTGAAGCCAGCACAGCTACTGTT
TTGGGAGAGGGGAGATGCTGGGGATAGAAGGAAGAACATGGAGGGCCTTCAAGCTGCCCTCCAGGAAGTGATGTT
CTCTTCTTGCTCAGATGTGTGCTGTGGAGGATATGGCCGCCCTGGCCAGGGAGCTGGGGATTAGGTAGATGA
AGACTTTGAAAACACTCAGAGAATTCAGTTTTCTCTGGAGAAAACATGGCTGGGACAGCTGAAGGTGAGGGTCA
GCAAAGACACAGTCAGCTAAAAAGCTCATCTAAAAGCCAGGCTCTAATGCCAATTCAAGAGCCTGGGACTCAATG
TGAGCTCAGCCAGAATCTTCAGAATCTCTATGGTACCCAGTATTCAGGCCTGTTCTAGAGAACTCCTGGCTCTT
TCCAACCAGAATTGGAGGTAACTTTAACCATGTTTCTTTGAAAGCCTCCTGGGTTATGGGCCGCCCTTTGGGTC
AGAGCAGAGGCCTAAGTGGTTCCATCCTTTGCCTTTTCAGAAATGCAGGGGCCAGGGCCGAGGTAAAAGTTTTGG
TATTCAATCCTTCCATCCCCAGATATTTTATTTCAGGTGAAAGATTTCATGAAATTTTCCAGAGTTGCTCGGGGATG
TCACTCGAATGGAACATTTGGGAGACTGCCAAGACCCATTTGTCAGCATGTACAGGCCTGCCCTGAGAGACCACA
AATGATGGGAACCTCTTGAAGGTCTAGGGCAGTAGCCTCCAAGATAGGTCACTCCTATTCCCTGGATTACAGCC
AGCAAGAGCAGTAGGGAAGCCATGGCCTCAGCAAGCTTGCAACAGGTAACAGAGTTAACTGAAGCAACTGGAAA
ACTGATAAGAACATCCCATATTGGAAGCCTCACCTCAGTCTTTCAACCAGCAGCAGCCACACAAAACTAAG
ACCTGCTTCTCAGCAAGGAGTCCAGATGAAGACACAAGGTGGGGCTTCAAATCCAGCTCTCCAAATAGGGTCCCA
TCCCATGTGCAAGAGCTCTCAGTTCAAATCCGATCAGTCCAACCCATCCACAGTCAAACACTCCAGCCTAAACC
CTTCCATTCTGTGCCCTCTCAACCTAAATCCTCTCAGACAAAATCCTGTGCTCCAGCCCTCCCAAATAAACC
TTCTCCATGCAAATCTACTCAGCCTAAGCCAAGCCAGCCCTGGCCTCCCAAGTCTAAGCCTTCTCAGCCCAGACC
CCCTCAACCTAAGTCATCCTCAACCAATCCTTCACAAGCTAAGGCACACCACTCAAAGCAGGGCAGAAGAGGGG
AGGGAAGCATTAAGAGCTAACTCCAGAGATCTATAAAGCATATCCTTTACCCAGGCCATTCTATCATATAGTA
AGCAGAAGAGTTGCCATGAAAGTAAAGACTACTGTCAATTAGCATGTAAACAAAGAAAGATATACATGACCGAA
TTGGATATCTTTGTTTGTGTTTGGAGACAGAGTTTCACTCTTGTGCCCCAGGCTGGAGTGCAATGGCAGCATCT
CGGCTCACCGCAACCTCTGCTTCTGGCTTAAAGTGATTCTCTGCTCAGCCTCTCGAGTAGCTGGGATTACAG

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FIGURE 1549B

GCATGCACCACCACACCCAGCTAATTTTGTATTTTGTAGTAGAGGCAGGGTTTCTCCATGTTGGTCAGGCTGGTCT
TGAACTCCCGACCTCAGGTGATCCGCCCACCTAGGCCTCTCAAAGTGTTGGGATTACGTGTGTAAGCCACAGTGC
CCAGCCCGAATTGGATATCTTTAAGATATCTGTAAGTGTTATATCCCTAACCAAGAAGAAAAATATGAAAATAAT
TAAGACTAGAATCAAGCAGTAGATAATTGAATCCAATCTTGGGTATTATTAGATAATGTATAACTTGCACCCAGG
GAATGGGGGTCTATGAGACAACCCCACTTGGAGAAGAATGGGGTTAGGGTCTCTAATTGCAAAGTGACTGTACAA
TAGGACGAAAGTTGCCTCTGTGTCTGAGAAAGTATCTTAGTTGTTGGCTGCTCCAGAGGTATCTTTGTCAAAGC
TTCTGGTTCAATATCAGCCACTGAGCAGATAACCCTGCTTATTTGGTGTGGTTAAATCAACTAGCTTCTGCTAAT
AGCCCAATTTGCTTGAATGGGAAAACCTCTCTCATTTGACCCTTATAGGTAGAAATAATGAATTAACAACCAATA
AAATTAATCATTTGCGATTAAAAA

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FIGURE 1550

MATESTPSEIIERERKKLLEILQHDPDSILDTLTSRRLISEEEYETLENVTDLLKKSRLLLILVQKKGEATCQHF
LKCLFSTFPQSAAICGLRHEVLKHENTVPPQSMGASSNSEDASFPGIKQPEAPEITVFFSEKEHLDLETSEFFRD
KKTSYRETALSARKNEKEYDTPEVTLSYSVEKVGCEVPATITYIKDGQRYEELDDSLYLGKEEYLGSDTPEDAE
ATVEEEVYDDPEHVGVDGEEDFENSETTEFSGEEPSYEGSETSLSLEEEQEKSIERKKVFKDVLLCLNMDRSRK
VLPDFVKQFSLDRGCKWTPESPGLAWNFLMKVQARDVTARDSILSHKVLEDESKEDLLAGVENLEIRDIQTINP
LDVLCATMLCSDSSLQRQVMSNMYQCQFALPLLLPDAENNKSILMLGAMKDIVKKQSTQFSGGPTEDTEKFLTM
KMPVISFVRLGYCSFSKSRILNTLLSPAQLKLHKIFLHQDLPLLVLPQISDGLVEITWCFPDSDDRKENPFFQK
PVALANLRGNLESFWTQFGFLMEVSSAVFFFTDCLGEKEWDLLMFLGEAAIERCYFVLSSQARESEEAQIFQRIL
NLKPAQLLFWERGDAGDRRKNMEGLQAALQEVMFSSCLRCVSVEDMAALARELGIQVDEDFENTQRIQVSSGENM
AGTAEGEGQQRHSQKSSSKSQALMPIQEPGTQCELSQNLQNLGYTPVFRPVLENSWLFPTRIGGNFNHVS LKAS
WVMGRPFGSEQRPKWFHPLPFQNAGAQQGRGKSFGIQSFHPQIFYSGERFMKFSRVARGCHSNGTFGR LPRPICQH
VQACPERPQMMGT LERSRAVASKIGHSYSLDSQPARAVGKPWPQQACTRVTELTEATGKLIRTSHIGKPHPQS FQ
PAAATQKL RPASQQGVQMK TQGGASN PALQIGSHPMCKSSQFKSDQSNPSTVKHSQPKPFH SVPSQPKSSQTKSC
QSQPSQTKPSPCKSTQPKPSQPWPPQSKPSQPRPPQPKSSSTNPSQAKAHH SKAGQKRGGKH

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FIGURE 1551

CCTCGCCCCGCCTACGCGGGAACCCAACCGCGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTTCGTGC
AATGGCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCACCGGGCCGTGGAACAGCACAAATGGCAA
GACCATTTTCGCCTACTTTACGGGTTCTAAGGACGCCGGGGGGAAAAGCTGGTGCCCCGACTGCGTGACAGGCTGA
ACCAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCTACACTACTTAAGTATGG
AACACCTCAAAAACCTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAATGTTGTTCTCTGAAGATTAAGA
TTTTAGGATGGCAATCATGTCTTGATGTCCTGATTTGTTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAATGCCCATGAACCT
TTAGTTTGCCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGGTAATACCTAAAAACTCCTAAAGGTGCAGAGC